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The first section of this report presents data, by individual institutions, on program requirements and program characteristics of master's programs in mathematics and master's programs specially designed for the teaching of mathematics. It also lists the names of institutions conferring master's degrees in statistics and discusses the specialist degree program (an intermediate between a master's degree program and a doctor's degree program) at DePaul University in Chicago and Kansas State Teachers College, Emporia.

The second section is divided into 2 parts. The first lists 95 institutions and branches of multicampus institutions offering doctoral programs in mathematics, including mathematical statistics. Data are reported for each institution on credit requirements, areas of specialization, and number of degrees awarded from January 1958 to January 1961, inclusive. The second part lists 25 institutions offering doctoral programs specially designed for the teaching of mathematics and presents data on credit requirements, foreign language requirements, kinds of degrees awarded, and number of degrees conferred from January 1958 to January 1961, inclusive.

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AMERICAN MATHEMATICAL SOCIETY

Notices

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VOLUME 8, NUMBER 7, PART II, ISSUE NO. 59, DECEMBER 1961

SPECIAL ISSUE

ASSISTANTSHIPS AND FELLOWSHIPS IN MATHEMATICS IN 1962-1963

THE AMERICAN MATHEMATICAL SOCIETY

Notices

SPECIAL ISSUE

ASSISTANTSHIPS AND FELLOWSHIPS IN MATHEMATICS IN 1962-1963

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INTRODUCTION

The present Special Issue of the NOTICES contains the third annual survey of Assistantships and Fellowships Available in Mathematics to be published by the AMS as a service to the mathematical community. The two previous surveys have proved the value of this service both to students and to departments of mathematics. Response to our requests for information has improved each year; out of 640 questionnaires sent out this year we received 532 replies, or a response of 83 percent. Indeed, it is probable that no department which offers graduate assistantships and fellowships has failed to reply.

Because of the popularity and timeliness of our Special Issue, the AMS has been given the opportunity to include in it the sections on graduate programs from a comprehensive survey of degree programs in mathematics, compiled by Clarence B. Lindquist, Specialist in Mathematics and Physical Sciences, Division of Higher Education, Office of Education, U. S. Department of Health, Education, and Welfare. Mr. Lindquist's survey is essentially a compilation of information about undergraduate and graduate programs in mathematics (including mathematical statistics and actuarial science), showing requirements of various kinds and other significant facts relating to these programs. The section on undergraduate programs is not included in this issue, but will be contained in a final report on these and other data to be compiled and analyzed by Mr. Lindquist and issued by the Office of Education.

Because of the great expansion in data processing and computing, Mr. Lindquist also gives a listing of high speed computers on college and university campuses, which we have included in the Special Issue.

This survey complements that on fellowships and assistantships; from the two a prospective graduate student can get a picture not only of the financial assistance available from various departments, but also of their requirements, their particular areas of concentration, and other material which would help him to make an informed choice of the department in which he wishes to study. For an excellent discussion of the general considerations which should guide the student's choice, we recommend the booklet Professional Training in Mathematics, by F. A. Ficken and C. C. MacDuffee, available from the Society for a nominal charge of twenty-five cents.

In addition to the two surveys, this issue also contains a selected list of scholarships, fellowships, and loan sources, other than those offered by colleges and universities, which are available in mathematics at the undergraduate and graduate levels. Post-doctoral fellowships are not included, as these are periodically reported in the NOTICES.

Also included is a list of those departments of mathematics and statistics which do not offer a graduate program or have no assistantships, or which failed to reply.

GRADUATE DEGREE PROGRAMS IN MATHEMATICS: 1961

Clarence B. Lindquist

The survey reported here in part is a further step in the effort to determine the current status of and trends in mathematics programs in colleges and universities across the country. The questionnaire, titled Survey of Mathematics Programs in Institutions Granting Bachelor and Higher Degrees, was distributed in January of 1961 to about 1,050 colleges and universities, branches of multi-campus institutions, and separate departments of multi-department universities. After two follow-ups to non-respondents, the gathering of information was essentially terminated in May with completed returns from about 900 institutions. A special effort was made to obtain information on master's and doctoral programs from each institution offering such programs, and consequently in these areas this report has nearly 100 percent coverage.

PART I

MASTER'S PROGRAMS

The first section of this Part deals with master's programs, the second section with master's programs specially designed for the teaching of mathematics, the third section with master's programs in statistics, and the short fourth section with the specialist in the mathematics program, which exists at two institutions and which results in a degree considered intermediate between the master's degree and doctor's degree.

Information about kind of degree(s) awarded, as well as credit, thesis, and language requirements, is given for programs in mathematics and for programs specially designed for the teaching of mathematics. Institutions at which it is possible to earn these degrees through evening and/or Saturday study and through summer study are indicated.

Section A

Master's Programs in Mathematics

Data was obtained on 220 master's programs in mathematics. Except in a very few instances (for example, the separate master's programs in the College of Letters, Science, and Arts and in the Institute of Technology at the University of Minnesota), these programs represent different institutions or distinct campuses of institutions, such as the University of California campuses.

The Master of Arts (M.A.) degree is the sole degree awarded in 37 percent of these programs; the Master of Science (M.S), the sole degree in 32 percent of them, and either the M.A. or M.S. in 28 percent of them. Three institutions reported that they conferred an A. M. degree and two an S. M. degree.

Fifty-nine percent of the programs have either 30 semester credit hours or 45 quarter credit hours as a specific total credit hour requirement for the degree (including credits for thesis if they are part of the requirement). With very few exceptions, the credit hour requirement is all, or nearly all, in mathematics.

A thesis is required in 48 percent of the programs and optional in 37 percent of them. Twenty-eight institutions make no provision at all for the writing of a thesis. A modern foreign language is a requirement in 36 percent of the programs. Johns Hopkins University and Bryn Mawr College require two modern foreign languages for the master's degree in mathematics. French, German, or Russian were frequently mentioned as being desirable languages in meeting the language requirement.

It is possible to earn the master's degree in mathematics through evening and/or Saturday study alone in 27 percent of these master's programs and through summer study alone in 37 percent of them.

Princeton University is the only university with a doctoral program in mathematics which did not report the existence of a master's program in mathematics. California Institute of Technology reported that, although a master's program in mathematics existed, such a degree was very exceptional.

Table 1.--Master's programs in mathematics: Institutions, Program requirements, Program characteristics.

Explanation of table and abbreviations:

M.-Master; A.-Arts; S.-Science; Appl.-Applied; Not spec.-Not specified; req.-required; opt.-optional.

Absence of an entry in column (6) means that no provision is made for the writing of a thesis.

An "x" in column (7) means that a modern foreign language is required for the degree.

An "x" in column (8) means that it is possible to earn the degree through evening and/or Saturday study alone.

An "x" in column (9) means that it is possible to earn the degree through summer study alone.

An asterisk "*" means that information relative to that item was not supplied by the respondent.

State	Institution and City	Degree(s) awarded	Credit requirement (inc. credit for thesis) s. semester; q. quarter		Thesis	Foreign language req.	Degree can be obtained by	
			In Math.	Total for the deg.			Eve.and/or Sat. study	Summer study
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Ala.	Auburn University, Auburn	M. S.	30q	45q	req.			x
	University of Alabama, University	M. A.	24s	30s	opt.			x
Alaska	University of Alaska, College	M. S.	25-30s	30s	req.	x		
Ariz.	Arizona State University, Tempe	M. A.	30s	30s	opt.	x	x	x
	University of Arizona, Tucson	M. S., M. A.	30s, M. S. 18s, M. A.	30s		x, M. S.		
Ark.	University of Arkansas, Fayetteville	M. A., M. S.	18s	30s	opt.			x
Calif.	California Institute of Technology, Pasadena.	*	15 quarter courses	*	opt.			
	Fresno State College, Fresno	M. A., M. S.	21s	30s		x		
	George Pepperdine College, Los Angeles	M. A.	30s	*	req.	x		
	Long Beach State College, Long Beach	M. A.	18s	30s	opt.	x		
	Los Angeles State College, Los Angeles	M. A.	24s	30s	opt.		x	
	Pomona College and Claremont Grad. Sch., Claremont	M. A.	24s	30s	req.			
	Sacramento State College, Sacramento	M. S., M. A.	30s, M. S. 20s, M. A.	36s, M. S. 30s, M. A.	opt.			
	San Diego State College, San Diego	M. A., M. S.	24s	30s	opt.	x, M. A.	x	
	San Francisco State College, San Francisco	M. A.	24s	30s				
	San Jose State College, San Jose	M. A., M. S.	24s	30s	opt.			
	Stanford University, Stanford, Palo Alto	M. S.	30-36q	45q	opt.			
	University of California at Berkeley	M. A. Math., Stat.	24s, Math. 18s, Stat.	24s	req. Statistics			
	University of California at Davis	M. A. in Math.	24s	24s				
	University of California at Los Angeles	M. A.	24s	24s	opt.	x		
Ill.	University of Chicago, Chicago	S. M.	30q	*		x		
	University of Illinois, Urbana	M. A., M. S.	18s	24s	opt.			x
	Western Illinois University, Macomb	M. S.	36q	48q				x
Ind.	Ball State Teachers College, Muncie	M. A., M. S.	32q	45q	opt.	x, M. A.	x	x
	Earlham College, Richmond	M. A.	18q	30q				
	Indiana State Teachers College, Terre Haute	M. A., M. S.	20-30s	32s	opt.		x	x
	Indiana University, Bloomington	M. A.	30s	30s		x		
	Purdue University, Lafayette	M. S.	21s	33s	opt.			
	Rose Polytechnic Institute, Terre Haute	M. S.	18s	30s	req.		x	
	University of Notre Dame, Notre Dame	M. S.	30s	30s	opt.			x
Iowa	Iowa State University, Ames	M. S.	30q	approx. 45q	req.	x		
	State University of Iowa, Iowa City	M. S.	*	30-38s	opt.			x
Kans.	Fort Hays Kansas State College, Hays	M. A.	20s	30-32s	req.			x
	Kansas State College of Pittsburg, Pittsburg	M. A., M. S.	20s	M. A., 30s M. S., 32s		x, M. A.		x
	Kansas State Teachers College, Emporia	M. A.	20s	30s	req.			x
	Kansas State University, Manhattan	M. S.	20-26s	32s	req.			x
	University of Kansas, Lawrence	M. A.	30s	30s	req.			
	University of Wichita, Wichita	M. A.	15s	30s	req.			
Ky.	University of Kentucky, Lexington	M. A., M. S.	24s	24s	req.	x		x
	University of Louisville, Louisville	M. A.	18s	30s	req.		x	

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Calif.	University of California at Santa Barbara	M. A.	24s	24s				
	University of Southern California, Los Angeles	M. A., M.S.	18s	30s		x, M. A.	x	
Colo.	Colorado State College, Greeley	M. A.	35q	45q	opt.			x
	Colorado State University, Fort Collins	M. S.	35q	45q	req.			
	University of Colorado, Boulder	M. A.	20s	24s	req.	x		x
	University of Colorado, (Appl. Math.), Boulder	M. S. in Appl. Math.	22-28s	26-32s	opt.		x[1]	
	University of Denver, Denver	M. A.	45q	45q	opt.			
Conn.	Trinity College, Hartford	M. S.	24s	30s			x	
	University of Connecticut, Storrs	M. A., M. S.	24s	24s	opt.			
	Yale University, New Haven	M. A.	approx. 26s	approx. 26s	opt.	x		
Del.	University of Delaware, Newark	M. A., M. S.	30s	30s	req.		x	
D. C.	American University	M. A.	30s	30s	req.	x	x	
	Catholic University of America	M. A., M. S.	24s	30s	req.	x		x
	George Washington University	M. A., M. S.	30s, Math. 18s, Stat.	30s	req.	x	x	
	Georgetown University	M. A.	24s	24s	req.	x	x	
	Howard University	M. S.	30s	30s	req.	x		
Fla.	Florida State University, Tallahassee	M.A., M. S.	21s	30s	opt.			
	University of Florida, Gainesville	M. A., M. S.	24s	30s	req.	x		x
	University of Miami, Coral Gables	M. S.	18-30s	30s				
Ga.	Atlanta University, Atlanta	*	24s	24s	req.	x		x
	Emory University, Atlanta	M. A., M. S.	45q	45q	req.	x		
	Georgia Institute of Technology, Atlanta	M. S. in Appl. Math.	18s plus thesis	33s plus thesis	req.			
	University of Georgia, Athens	M. A.	45q	45q	req.	x		
Hawaii	University of Hawaii, Honolulu	M. A.	18s	30s	req.			
Ida.	University of Idaho, Moscow	M. S.	24s	30s	req.	x		
Ill.	DePaul University, Chicago	M. S.	*	36s	opt.		x	x
	Illinois Institute of Technology	M. S.	32s	32s	req.		x	
	Illinois State Normal University, Normal	M. S. in Educ.	20s	32s	req.[2]			x
	Loyola University, Chicago	M. A., M. S.	30s	30s	opt.		x	x
	Northern Illinois University De Kalb	M. S.	23s	32s	req.		x	x
	Northwestern University, Evanston	M. A., M. S.	36q	36q			x	x
	Southern Illinois University, Carbondale	M. A., M. S.	30q	48q	req. of M. A.	x		
La.	Louisiana Polytechnic Institute, Ruston	M. A.	21s	30s	req.		x	x
	Louisiana State University, Baton Rouge	M. S.	30s	30s	req.			
	Northwestern State College, Natchitoches	M. S.	30s	30s	opt.			x
	Tulane University, New Orleans	M. S.	36s	36s		x		
Me.	University of Maine, Orono	M. A.	30s	30s	req.			x
Md.	Johns Hopkins University, Baltimore	M. A.	Not spec.	Not spec.		x[5]		
	University of Maryland, College Park	M. A.	18s	30s	req.[6]	x		
Mass.	Boston College, Chestnut Hill	M. A.[7]	30s	30s	req.	x		
	Boston University, Boston	M. A.	20s	30s	req.		x	
	Brandeis University, Waltham	M. S.	18s	18s		x		
	Clark University, Worcester	M. A.	30s	*	req.	x		
	Harvard University, Cambridge	A. M.	12s	*		x		
	Lowell Technological Institute, Lowell	M. S.	18s	36s	req.	x		
	Massachusetts Institute of Technology, Cambridge	S. M.	18s	24s	req.			
	Northeastern University, Boston	M. S.	20s	30s			x	
	Smith College, Northampton	M. A.	24s	24s	req.	x		
	University of Massachusetts, Amherst	M. A.	24-30s	30s	opt.			
Mich.	Andrews University, Berrien Springs	M. A.	18s	18s	opt.	x		
	Central Michigan University, Mount Pleasant	M. A.	20-24s	30s	opt.		x	x
	Michigan State University, East Lansing	M. A., M.S.	33q	45q	opt.			x
	University of Detroit, Detroit	M. A.	30s	30s	opt.	x	x	x
	University of Michigan, Ann Arbor	M. A., M. S.	18s	24s	opt.			x
	Wayne State University, Detroit	M. A.	28s	32s	*	*	x	x
Minn.	Mankato State College, Mankato	M. S.	27q	45q	req.			x
	University of Minnesota, Col. of LSA, Minneapolis	M. A., M. S.	27q	36-45q	opt.	x		x
	University of Minnesota, Inst. of Technology, Minneapolis	M. S.	18-21q	27-45q	opt.	x		
Miss.	Mississippi Southern College, Hattiesburg	M. A., M.S.	48q	48q	[8]	x		x

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[1] May be obtained by resident extension class work in Denver.

[2] Or two papers.

[3] Also an M. A. in Ed. and an M. S. in Ed.

[4] A thesis is required for the M. A. degree, optional for the M. S. degree.

[5] A reading knowledge of both French and German is required.

[6] Also available is an option allowing substitution of an expository paper instead of a thesis. This requires 9 extra credit hours of course work, 33 hours in all.

[7] A nonresearch M. A., in which no thesis or language is required, is offered primarily for students in National Science Foundation Institutes.

[8] A thesis is required for the M. A. degree, optional for the M. S. degree.

State	Institution and City	Degree(s) awarded	Credit requirement (inc. credit for thesis) s, semester; q, quarter		Thesis	Foreign language req.	Degree can be obtained by	
			In Math.	Total for the deg.			Eve.and/or Sat. study	Summer study
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Miss.	Mississippi State University, State College	M. A., M. S.	24s	30s	req.			x
	University of Mississippi, University	M. A., M. S.	30s	30s	req.			
Mo.	Central Missouri State College, Warrensburg	M. A.	28s	32s				x
	St. Louis University, St. Louis	M. A., M. S.	*	24s	req.	x		
	University of Kansas City, Kansas City	M. A., M. S.	18s	30s	opt.		x	
	University of Missouri, Columbia	M. A.	26-32s	32s	opt.			
	Washington University, St. Louis	M. A.	24s	24s	req.			
Mont.	Montana State College, Bozeman	M. S.	30q	30-40q	opt.			x
	Montana State University, Missoula	M. A., M. S.	30q	45q	req.	x		x
Nebr.	University of Nebraska, Lincoln	M. A., M. S.	24s	30-36s	opt.			
Nev.	University of Nevada, Reno	M. A., M. S.	18s	30s	req.	x		
N. H.	Dartmouth College, Hanover	M. A.	30s	30s		x		
	University of New Hampshire, Durham	M. S.	30s	30s				
N. J.	Fairleigh Dickinson University, Rutherford	M. S.	32s	32s	opt.		x	
	Rutgers The State University, New Brunswick	M. S.	24s	30s	opt.		x	
	Stevens Institute of Technology, Hoboken	M. S.	30s	30s	opt.		x	
	Trenton State College, Trenton	M. A.	26s	32s	opt.			
N. M.	Eastern New Mexico University, Portales	M. A.	27s	30s	req.	x		x
	New Mexico Highlands University, Las Vegas	M. S.	36q	48q	req.			
	New Mexico Institute of Mining and Technology, Socorro	M. S.	24s	30s	req.	x		
	New Mexico State University, University Park	M. S.	30s	30s	opt.			
	University of New Mexico, Albuquerque	M. S.	21s	32s	opt.	x	x	x
N. Y.	Adelphi College, Garden City	M. S.	24s	36s	opt.		x	
	Brooklyn College, Brooklyn	M. A.	21s	30s plus thesis	req.		x	
	City College, New York	M. S.	18s	30s	opt.	x	x	
	Columbia University, Columbia College, New York	M. A.	24s	30s	opt.	x		
	Cornell University, Ithaca	M. A.	Not spec.	Not spec.	req.	x		
	Fordham University, New York	M. A.	30s	30s	opt.	x		
	Hofstra College, Hempstead, Long Island	M. A. in Nat. Sci.	21s	33s	opt.	x	x	
	Manhattan College, New York	M. A.	18s	24s plus thesis	req.	x	x	x
Okla.	University of Oklahoma, Norman	M. A., M. S.	20-26s	30s	opt.			
	University of Tulsa, Tulsa	*	30s	30s	req.			
Ore.	Oregon State University, Corvallis	M. A., M. S.	30q	45q	req.	x, M. A.		x
	University of Oregon, Eugene	M. A., M. S.	*	45q	opt.	x, M. A.		
Pa.	Bryn Mawr College, Bryn Mawr	M. A.	2 yr. courses	3 yr. courses	req.	x		
	Bucknell University, Lewisburg	M. A., M. S.	18s	30s	opt.	x, M. A.		
	Carnegie Institute of Technology, Pittsburgh	M. S.	21s	32s	opt.			
	Duquesne University, Pittsburgh	M. A.	30s	30s	req.	x	x	
	Lehigh University, Bethlehem	M. S.	18s	30s	req.			
	Pennsylvania State University, University Park	*	21s	30s	req.			x
	Temple University, Philadelphia	M. A.	*	*	opt.		x	
	University of Pennsylvania, Philadelphia	M. A.	24s	24s	opt.			
	University of Pittsburgh, Pittsburgh	M. A., M. S.	18s	30s	req		x	x
	Villanova University, Villanova	M. A.	24s	30s	opt.		x	x
P. R.	University of Puerto Rico, Mayaquez	M. A.	*	30s	opt.	x		
R. I.	Brown University, Providence	M. A.	24s	24s	req.	x		
	University of Rhode Island, Kingston	*	30s	30s	req.			
S. C.	Clemson College, Clemson	M. S.	24s	30s	opt.	x		
	University of South Carolina, Columbia	M. A., M. S.	30s	30s	req.	x		x
S. D.	South Dakota School of Mines and Technology, Rapid City	M. S.	24s	30s	req.			
	South Dakota State College, Brookings	M. S.	30q	45q	req.			x
	State University of South Dakota, Vermillion	M. A., M. N. S.	19s, M. A. 18s, M. N. S.	28s, M. A. 35s, M. N. S.	req., M. A.			x
Tenn.	East Tennessee State College, Johnson City	M. S.	30q	45q	req.		x	
	George Peabody College for Teachers, Nashville	M. A.	24-36q	48q	opt.			x
	Middle Tennessee State College, Murfreesboro	M. A.	15s	32s	opt.		x	x
	University of Tennessee, Knoxville	M. A.	36q	45q	req.			
	Vanderbilt University, Nashville	M. A., M. S.	18s	24s	req.	x		
Texas	Abilene Christian College, Abilene	M. A.	18-24s	30s	req.	x		
	Agricultural and Mechanical College of Texas, College Station	M. Sc.	20s	32s	req.			x
	Baylor University, Waco	M. A., M. S.	18-30s	30s	req.	x	x	x

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
N. Y.	New York University, New York	M. S.	24s	30s	req.		x	
	Polytechnic Institute of Brooklyn, Brooklyn	M. S.	20s	30s	req.	x	x	
	Rensselaer Polytechnic Institute, Troy	M. S.	21-30s	30s	opt.	x		
	St. John's University, Jamaica	M. A.	30s	30-33s	opt.	[10]	x	x
	Syracuse University, Syracuse	M. A., M. S.	21s	30s	opt.			
	Union College and University, Schenectady	M. S.	24s	30s	req.		x	
	University of Buffalo, Buffalo	M. A.	26s	32s	req.	x	x	
	University of Rochester, Rochester	A. M.	32s	32s				x
	Yeshiva University, New York	M. A.	24s	30s			x	
N. C.	Appalachian State Teachers College, Boone	M. A.	30-45q	45q	opt.			x
	Duke University, Durham	M. A.	24s	30s	req.	x		x
	East Carolina College, Greenville	M. A., M. S.	27q	45q	req.		x	x
	University of North Carolina, Chapel Hill	M. A.	24s	30s	req.	x		x
	University of North Carolina, Raleigh	M. S. in Appl. Math	20s	30s	req.	x		
	Wake Forest College, Winston-Salem	M. A.	24s	30s	req.	x	x	x
N. D.	North Dakota State University, Fargo	M. S.	30q	45q	opt.			
	University of North Dakota, Grand Forks	M. A., M. S.	15-20s	30s	req.	x, M. A.		x
Ohio	Bowling Green State University, Bowling Green	M. A.	15s	33s	opt.			
	Case Institute of Technology, Cleveland	M. S.	24s	30s				
	John Carroll University, Cleveland	M. S., M. A.	30s	30s	opt.	x[11]		
	Kent State University, Kent	M. A.	23q	48q	req.			x
	Miami University, Oxford	M. A., M. S.	21s	30s	req.			
	Ohio State University, Columbus	M. A., M. S.	45q	45q	req.			x
	Ohio University, Athens	M. S.	23-32s	32s	req.			
	University of Cincinnati, Cincinnati	M. A.	30s	30s	req.	[12]		
	University of Dayton, Dayton	M. S.	24s	30s	opt.		x	
	University of Toledo, Toledo	M. A., M. S.	18s	30s	req.			
	Western Reserve University, Cleveland	M. A., M. S.	30s	30s	opt.			
	Xavier University, Cincinnati	M. S.	30s	*	x, Plan A	x, Plan A	x	x
Okla.	Oklahoma State University, Stillwater	M. S.	32s	30-32s	opt.			

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[9] One language is required for Plan A, which is the thesis plan with 30 credits. No language is required for Plan B, which requires 45 credits and no thesis.

[10] A foreign language is required in Plan A along with a thesis and a total of 30 credits; no language in Plan B which requires a total of 33 credits and no thesis.

[11] A test in basic statistics (10 problems in 1 1/2 hours) may be substituted for foreign language.

[12] One modern language is required in the College of Arts and Sciences program; none in the College of Engineering.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Texas	North Texas State College, Denton	M. A., M. S.	24s	30s	req.	x		x
	Prairie View Agricultural and Mechanical College, Prairie View	M. S.	21s	30s	req.			x
	Rice University, Houston	M. A.	4 adv. courses	4 adv. courses	req.	x		
	St. Mary's University, San Antonio	M. S.	36s	36s	opt.		x	
	Sam Houston State Teachers College, Huntsville	M. A., M. S.	18s, M. A. 24s, M. S.	30s, M. A. 36s, M. S.	req.	x		x
	Southern Methodist University, Dallas	M. A., M. S.	24s	30s	opt.	x	x	
	Stephen F. Austin State College, Nacogdoches	M. A.	18s	30-36s	opt.			x
	Texas Christian University, Forth Worth	M. A., M. S.	30-36s	30-36s	[15]	x	x	
	Texas College of Arts and Industries, Kingsville	M. A.	18s	30s	req.			x
	Texas Southern University, Houston	M. A.	30s	30s	req.	x		x
	Texas Technological College, Lubbock	M. A., M. S.	24s	30-36s	opt.	x		x
	University of Houston, Houston	M. A., M. S.	18s	30s	req.		x	x
	University of Texas, Austin	M. A.	18s	30s	req.	x		x
Utah	Brigham Young University, Provo	M. A.	*	*	req.			
	University of Utah, Salt Lake City	M. A., M. S.	45q	45q	req.	x, M. A.		
	Utah State University, Logan	M. S.	39q	45q	req.			
Vt.	University of Vermont, Burlington	M. A.	30s	30s	req.			
Va.	College of William and Mary, Williamsburg	M. A.	24s	24s plus thesis	req.	x		
	Madison College, Harrisonburg	M. A.	24s	30s	req.		x	
	University of Richmond, Richmond	M. A., M. S.	15s	27s	req.	x		
	University of Virginia, Charlottesville	M. A.	24s	24s	req.	x		x
	Virginia Polytechnic Institute, Blacksburg	M. S.	39q, Math. 30q, Stat.	45q	req.			x
	Virginia State College, Petersburg	M. S.	21s	30s	req.	x		x
Wash.	Gonzaga University, Spokane	M. S. in Appl. Math.	24s	30s	req.	x		
	University of Washington, Seattle	M. A., M. S.	36q	36q	[16]	x		x
	Washington State University, Pullman	M. A.	24s	30s	req.	x		
W. Va.	West Virginia University, Morgantown	M. A., M. S.	24-30s	30s	opt.			x
Wis.	Marquette University, Milwaukee	M. S.	24s	30s	opt.	[17]	x	x
	University of Wisconsin, Madison	M. A.	24s	24s				
	University of Wisconsin, Milwaukee	A. M., M. S.	18-24s	18-24s		*	x	x
Wyo.	University of Wyoming, Laramie	M. A., M. S.	20s	30s	opt.			x

(For footnotes, see page 10)

Section B

Master's Programs Specially Designed for the Teaching of Mathematics

Master's programs specially designed for the teaching of mathematics are offered at 183 institutions and branches of institutions. These programs are primarily directed at upgrading the qualifications of secondary school teachers.

Because of the emphasis in recent years on improved teacher preparation, especially with the introduction of newer mathematical concepts in many of the curriculums in the schools, many of these programs have been newly established. A new degree, Master of Arts in Teaching (M.A.T.) is now offered at 29 institutions. Generally the emphasis in such programs has been on mathematics content, although often the courses are specially designed for secondary teachers and are not creditable toward a master's or doctor's degree in mathematics.

There is great variation in the names of degrees awadrded in these programs. Besides the M.A.T., other commonly used designations include Master of Arts (M.A.), Master of Science (M.S.), Master of Arts in Education (M.A. in Ed.), Master of Science in Education (M.S. in Ed.), Master of Education (M.Ed.), and M.S.T. (Master of Science Teaching).

About half of these programs (49 percent) require either 30 semester credit hours or 45 quarter credit hours. The lowest figure in any program was 24 semester credit hours and the highest, 60 quarter credit hours, figuring 2 semester credit hours as being equivalent to 3 quarter credit hours. There is considerable variation from program to program in the distribution of credit requirements in mathematics and in education courses.

In 19 percent of the programs a thesis is required, and in 40 percent it is optional. A modern foreign language is required in 9 percent of the programs.

It is possible to obtain one of these degrees at 73 percent of the institutions through summer study alone and at 30 percent through evening and/or Saturday study alone. The fact that almost three-fourths of the colleges and universities make it possible to earn a degree through summer study alone is evidence of the special effort made to accommodate teachers.

(Footnotes to Table 1)

[13] Two languages (French, German, or Russian) are required.

[14] Also offered is a Master in Letters degree. From 16 to 20 credits are required in mathematics and 10 to 14 credits in one or two related fields. A thesis is not required for this degree.

[15] Thesis is required for the M. A. degree, optional for the M. S. degree.

[16] Expository thesis for M. A., research thesis for M. S. M. S. awarded without thesis to students who pass general examination for Ph. D.

[17] Foreign language requirement accompanies the thesis option.

Table 2.--Master's programs specially designed for the teaching of mathematics: Institutions, program requirements, program characteristics

Explanation of table and abbreviations:

M.-Master; A.-Arts; E., Ed., or Educ.-Education; S. or Science;

N. or Nat.-Natural; req.-required; opt.-optional.

Absence of any entry in column (7) means that no provision is made for the writing of a thesis.

An "x" in column (8) means that a modern foreign language is required for the degree.

An "x" in column (9) means that it is possible to earn the degree through evening and/or Saturday study alone.

An "x" in column (10) means that it is possible to earn the degree through summer study alone.

An asterisk "*" means that information relative to that item was not supplied by the respondent.

State	Institution and City	Degree (s) awarded	Credit requirement (incl. thesis cr. if part of req.) s, semester; q, quarter			The-sis	For-eign lan-guage req.	Degree can be obtained by	
			In Math.	In educ. courses	Total for the deg.			Eve. and/ or Sat. study	Summer study
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Ala.	University of Alabama, University	M. A.	18s	0	30s	opt.			x
Alaska	University of Alaska, College	M. S. in Gen. Sci.	12s	0	30s	opt.			x
Ariz.	Arizona State College, Flagstaff	M. S. in Educ.	16s	6s	34s	opt.			x
	Arizona State University, Tempe	M. N. S.	12-21s	0	30s	opt.			
	University of Arizona, Tucson	M. A.	18s	*	30s				
Ark.	Arkansas State Teachers College, Conway	M. S. E.	15s	15s	30s	req.			x
Calif.	California State Polytechnic College, San Luis Obispo	M. A. in Educ.	18q	12q	45q				x
	Dominican College of San Rafael, San Rafael	M. T. S.	20-24s	0	30s			x	x
	Fresno State College, Fresno	M. A. with creden.	21s	22s	30s				
	Long Beach State College, Long Beach	M. A.	18s	As req. for cred.	30s	opt.			
	Los Angeles State College, Los Angeles	M. A.	24s	6s	30s	opt.		x	
	Sacramento State College, Sacramento	M. A.	20s	10s	30s	opt.			
	San Diego State College, San Diego	M. A.	18s	*	30s	opt.			
	San Jose State College, San Jose	M. A. (Teaching Obj.)	21s	*	30s	opt.			
	Stanford University, Stanford, Palo Alto	M. A. (Teaching Math.)	30-36q	12-15q	45q				x
Colo.	Colorado College, Colorado Springs	M. A. T.	22s	0	30s	req.			x
	Colorado State College, Greeley	M. A.	35q	30q[1]	45q	opt.			x
	Colorado State University, Fort Collins	M. A. T.	30q	0	45q				x
	University of Colorado, Boulder	M. Basic Science	24s	0	30s				x
Conn.	Central Connecticut State College, New Britain	M. S.	9-15s	9s	30s plus thesis	req.		x	x
	University of Connecticut, Storrs	M. Ed.	12s	10s	27s	opt.		x	x
	Wesleyan University, Middletown	M. A. T.	15s	9s	30s	opt.			
	Yale University, New Haven	M. A. T.	28s	16s	36s		x		
Del.	University of Delaware, Newark	M. Ed. in Nat. Sci.	*	6s	30s	opt.		x	x
D. C.	American University	M. S. S. T.	8s	6s	30s			x	x
	Catholic University of America	M. T. S.	24s	*	30s				x
Fla.	Florida State University, Tallahassee	M. S.	18s	12s	36s	opt.			x
	University of Florida, Gainesville	M. S.	24s	6s	36s		x		x
	University of Miami, Coral Gables	M. A.	18s	0	30s				
Ga.	Emory University, Atlanta	M. A. T.	45q	15q	60q				x
	Georgia State College for Women, Milledgeville	M. Ed.	25q	20q	60q				x
Ida.	University of Idaho, Moscow	M. N. S.	10s	0	30s				x
Ill.	Eastern Illinois University Charleston	M. S. in Educ.	24-28q	12q	48q	opt.		x	x
	Illinois Institute of Technology, Chicago	M. S. for Teachers	36s	0	36s	req.		x	x
	Illinois State Normal University, Normal	M. S. in Educ.	20s	9s	32s	req.[2]			x
	Northern Illinois University, De Kalb	M. S. in Educ.	15s	0	32s	req.		x	x
	Northwestern University, Evanston	M. A., M. Ed.	30q, M.A 18q, M. Ed.	6q, M. A. 18q, M. Ed.	36q			x	x x
	Southern Illinois University, Carbondale	M. S. in Educ.	30q	8-16q	48q				x
	University of Chicago, Chicago	M. A. T.	20-30q	18q	58q	req.			

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[1] 30 quarter hours at the undergraduate and graduate levels combined.

[2] Or 2 papers.

State	Institution and City	Degree (s) awarded	Credit requirement (incl. thesis cr. if part of req.) s, semester; q, quarter			The-sis	For-eign lan-guage req.	Degree can be obtained by	
			In Math.	In educ. courses	Total for the deg.			Eve. and/ or Sat. study	Summer study
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Ill.	University of Illinois, Urbana..............	M. S., M. Ed.	16s, M. S. 16s,M.Ed	8s, M. S. 16s,M.Ed.	32s				x
	Western Illinois University Macomb..............	M. S. in Educ.	36q	12q	48q				x
Ind.	Ball State Teachers College, Muncie.......	M. A. in Ed. M. S. in Ed.	32q	*	45q	opt.		x	x
	Indiana State Teachers College, Terre Haute..	M. A., M. S.	20s	12s	32s	opt.		x	x
	Indiana University, Bloomington...........	M. S., M. A. T.	10-20s	20s	35s	opt.			x
	Purdue University, Lafayette.............	M. S.	21s	*	33s				x
	University of Notre Dame, Notre Dame...........	M. S.	30s	0	30s	opt.			x
Iowa	Drake University, Des Moines............	M. Sci. in Teaching	15s	15s	32s	req.		x	x
	Iowa State Teachers College, Cedar Falls...	M. A. in Educ.	18s	7s	30-38s	opt.			x
	State University of Iowa, Iowa City.............	M. S.	*	6s	30-38s	opt.			
Kans.	Fort Hays Kansas State College, Hays.........	M. S.	20s	10s	32s	opt.			x
	Kansas State College of Pittsburg, Pittsburg...	M. S.	20s	0	32s	opt.			x
	Kansas State Teachers College, Emporia.....	M. S.	20-25s	0	30-35s	opt.			x
	University of Kansas, Lawrence.............	M. S. in Ed.	10-15s	15s	30s	req.			x
La.	Louisiana Polytechnic Institute, Ruston.......	M. Ed.	12s	18s	30s	opt.		x	x
	Louisiana State University, Baton Rouge...........	M. A., M. Ed.	21s, M. A. 12s, M. Ed.	9s, M. A. 18s M. Ed.	30s				
	Loyola University, New Orleans..........	M. S.	18s	*	30s	opt.			
	McNeese State College, Lake Charles	M. S. in Ed. M. Ed.	18s	12s	36s, M. S. 30s, M. Ed.	req., M. S.			x
	Northwestern State College, Natchitoches..	M. S. in Ed.	24s	6s	30s	opt.			x
	Tulane University, New Orleans..........	M. A. T.	20s	10s	30s	opt.			x
Md.	Johns Hopkins University, Baltimore............	M. A. T.	12s	21s	30s				
	University of Maryland, College Park.........	M. A.	18s	18s	36s	req.			
Mass.	Boston College, Chestnut Hill..................	M. A. T.	15s	15s	30s		x		
	College of Our Lady of the Elms, Chicopee.......	M. E.	16s	10s	30s	req.	x	x	x
	Harvard University, Cambridge............	A. M. T.	12-15s	9-12s	30s				
	State College at Boston, Boston................	M. Ed.	7s	26s	33s	req.			
	Suffolk University, Boston...............	A. M. T.	6s	18s	30s		x		
Mich.	Andrews University, Berrien Springs.......	M. A. T.	18-24s	6-12s	30s				
N. J.	Montclair State College, Upper Montclair.......	M. A.	18s	6s	32s	opt.		x	x
	Rutgers, The State University, New Brunswick...	M. A.	24s	6s	30s	opt.		x	
N. M.	New Mexico Highlands University, Las Vegas.	M. A. in Sci. Ed.	12q	Not spec.	48q	opt.			
	University of New Mexico, Albuquerque..........	M. Ed. in Science	18s	10s	34s			x	x
N. Y.	Adelphi College, Garden City................	M. S.	24s	*	36s	opt.		x	
	Brooklyn College, Brooklyn............	M. A.	15s	8-14s	30s	req.		x	
	Clarkson College of Technology, Potsdam......	M. S. in Basic Sci.	20s	0	30s				x
	Colgate University, Hamilton.............	M. A. T.[7]	24s	6s	30s	req.			x
	Columbia University, New York.............	M. A. in Educ.	18s	14s	32s	opt.		x	x
	Cornell University, Ithaca................	M. A. T.	Not spec.	Not spec.	Not spec.				
	Fordham University, New York............	M. S.	30s	6s	36s			x	x
	Hobart and William Smith Colleges, Geneva......	M. S. in Educ.	15s	15s	30s	req.	x		
	Hofstra College, Hempstead, Long Island...........	M. A. in Nat. Sci.	21s	9s	33s	opt.	x	x	
	Hunter College, New York	M. A.	21s	6s	30s			x	
	New York University, New York............	M. A. in Educ.	0	24s	30s plus thesis	req.		x	x
	St. John's University, Jamaica.............	M. A. in Educ.	12-18s	15-21s	33s			x	x
	State University of New York, College of Education at Albany....	M. A., M. S.	18s	6s	30s	opt.			x
	College of Education at Brockport............	M. S. in Educ.	9-12s	12s	32s	opt.		x	x
	College of Education at Cortland.............	M. S.	12s	9s	32s				x
	College of Education at Geneseo..............	M. S.	10s	9s	32s				x
	College of Education at Oneonta..............	M. S.	12s	9-12s	32s	opt.			x
	College of Education at Oswego..............	M. S.	12s	6s	30s				x
	College of Education at Plattsburgh...........	M. S. in Educ.	12s	18-24s	33s	opt.			x
	College of Education at Potsdam..............	M. S. in Educ.	15s	3s	32s			x	x
	Syracuse University, Syracuse.............	M. Ed.	18s	12s	30s	opt.			x
	Union College and University, Schenectady......	M. S. in Teaching	20s	*	30s			x	x
N. C.	Appalachian State Teachers College, Boone........	M. A.	18q	21q	39-54q	opt.			x
	Duke University, Durham..............	M. A. in Teaching	18-24s	6-12s	30s[8]	opt.			x
	East Carolina College, Greenville............	M. A.	27q	3q	45q	req.		x	x

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Mich.	Central Michigan University, Mount Pleasant	M. A.	10s	10s	30s	opt.		x	x
	Michigan State University, East Lansing	M. A. T.	33q	•	45q				x
	Northern Michigan College Marquette	M. A. in Teaching	18s	•	30s				x
	University of Detroit, Detroit	M. A. T.	24s	0	30s			x	x
	University of Michigan, Ann Arbor	M. A. for Sci. Teach.	20-24s	4s	30s	opt.			
	Wayne State University, Detroit	M. A.	20s	6s	32s			x	x
	Western Michigan University, Kalamazoo	M. A. T. in Sci. & Math.	20-24s	6-10s	30s	opt.		x	x
Minn.	Macalester College, St. Paul	M. Ed.	12s	10-13s	31s plus thesis	req.			x
	Mankato State College, Mankato	M. S.	27q	9q	45q	req.			x
	Moorhead State College Moorhead	M. S. in Educ.	9-27q	9q	45q	req.		x	x
	St. Cloud State College, St. Cloud	M. S.	18-21q	9-15q	45q	req.			x
	University of Minnesota, LSA College, Minneapolis	M. Ed.	24q	9-12q	45q	[3]			x
	University of Minnesota, Inst. Tech., Minneapolis	M. Ed.[4]	6q	36q	42q		x		
Miss.	Mississippi College, Clinton	M. Ed.	12-15s	•	24-30s	opt.			
	Mississippi Southern College, Hattiesburg	M. S. T.	30q	16q	46q	opt.			x
	Mississippi State University, State College	M. Ed.	24s	0	30s				x
	University of Mississippi, University	M. S. in Comb. Sci.	24s	0	36s	opt.			
Mo.	Central Missouri State College, Warrensburg	M. S. in Educ.	20s	12s	32s			x	x
	St. Louis University, St. Louis	M. A. (T), M. S. (T)	•	Not spec.	30s	[5]	x		x
	Southwest Missouri State College, Springfield	M. Ed., M. S. T.	32s, M. S. T. 16s, M. Ed.	0, M. S. T 16s, M. Ed.	32s				x, M. Ed.
	University of Missouri, Columbia	M. S. T.	varies	•	32s				x
	Washington University, St. Louis	M. A. in Educ.	12-24s	9-21s	33s				
Mont.	Montana State University, Missoula	M. A. T., M. S. T.	28-35q	•	45-60q	[6]			x
Nebr.	State Teachers College, Kearney	M. A. in Educ.	15s	9s	36s	opt.			x
	State Teachers College, Wayne	M. S. in Educ.	18s	4s	•	opt.			x
Nev.	University of Nevada, Reno	M. A. in Sec. Ed.	15s	15s	30s	req.			x
N. H.	University of New Hampshire, Durham	M. S. T.	30s	0	30s			x	x

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[3] Expository paper in mathematics is required. This program is in cooperation with the College of Education and is not a graduate school degree.

[4] This program is a new combined undergraduate and graduate curriculum in which the student receives both the B. S and the M. Ed. degrees.

[5] An essay is required.

[6] There are three options with 45, 54, and 60 quarter hours, respectively. A thesis is required in Option I only.

[7] This program is for junior high school teachers only.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
N. C.	University of North Carolina, Chapel Hill	M. Ed.	18s	6s	30s	opt.			x
	Western Carolina College, Cullowhee	M. A. in Educ.	13q	27q	45q	opt.			x
N. D.	North Dakota State University, Fargo	M. Ed.	15q	•	45q	opt.		x	x
Ohio	Bowling Green State University, Bowling Green	M. A.	15s	•	33s				x
	John Carroll University, Cleveland	M. A.	9s	21s	30s	opt.	[9]	x	x
	Kent State University, Kent	M. Ed.	27q	15q	48q				x
	Miami University, Oxford	M. A. T., M. Ed.	15s	9s, M. Ed. 0-6s, MAT	36s				x
	Ohio State University, Columbus	M. A., M. Ed.	15q	15q	45q, M. A. 52q, M. Ed.	[10]			x
	University of Akron, Akron	M. Ed.	12s	•	•	req.		x	
	University of Dayton, Dayton	•	12-18s	9s	30s			x	x
	Western Reserve University, Cleveland	M. A., M. S.	9s	•	30s				x
	Xavier University, Cincinnati	M. Ed.	12s	12s	30s			x	x
Okla.	Central State College, Edmond	M. of Teaching	up to 30s.	2s and up	32s			x	x
	Northwestern State College, Alva	M. of Teaching	8-16s	8-16s	32s				x
	Southeastern State College, Durant	M. of Teaching	8-12s	12s	32s			x	x
	Southwestern State College, Weatherford	M. of Teaching	9s	8s	32s				x
Ore.	Oregon State University, Corvallis	M. S., M. A., M. Ed.	•	•	45q				
	Reed College, Portland	M. A. T.	10-15s	5-10s	30s	req.		x	x
	Southern Oregon College, Ashland	M. S. in Educ.	up to 21q	21q	45q				
	University of Oregon, Eugene	M. A., M. S.	30q	9q	45q		x, M. A.		
Pa.	Bucknell University, Lewisburg	M. S. in Educ.	18s	0	30s				x
	Indiana State College, Indiana	M. S. in Educ.	14-22s	8-10s	30s	opt.		x	x
	Pennsylvania State University, University Park	M. Ed.	18s	6s	30s	opt.			
	Temple University, Philadelphia	•	•	•	•			x	
	Villanova University, Villanova	M. Sec. Sch. Sci.	12s	12s	30s				
	West Chester State College, West Chester	M. Ed.	18-24s	2s	30s	req.			
R. I.	Brown University, Providence	M. A. T.	4 math. courses	4-5 ed. courses	32s	req.			
S. C.	Clemson College, Clemson	M. Ed.	6-9s	12s	30s				x
	South Carolina State College, Orangeburg	M. S., M. Ed.	15s, M. S 21s, M. Ed	15s	30s, M. S. 36s, M. Ed.	[11]			

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[8] In a special twelve-months program for Retired Armed Services Officers 21 to 27 units in mathematics and 12 to 18 units in education (including practice teaching) are required. A total of 39 units are required for this group.

[9] A test of basic statistics (10 problems in 1 1/2 hours) may be substituted for the foreign requirement.

[10] A thesis is required for the M. A. degree; a project report for the M. Ed. degree.

[11] A thesis is required for the M. S. degree, optional for the M. Ed. degree.

State	Institution and City	Degree (s) awarded	Credit requirement (incl. thesis cr. if part of req.) s, semester; q, quarter: In Math.	In educ. courses	Total for the deg.	Thesis	Foreign language req.	Degree can be obtained by: Eve. and/ or Sat. study	Summer study
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
S. C.	University of South Carolina, Columbia	M. of Math.	24s	6s	30s				x
S. D.	Northern State Teachers College, Aberdeen	M. S. in Educ.	12-18q	18q	45q	opt.			x
	State University of South Dakota, Vermillion	M. Ed.	15-17s	18-20s	35s				x
Tenn.	East Tennessee State College, Johnson City	M. A.	15-21q	24-30q	45q	req.		x	x
	George Peabody College for Teachers, Nashville	M. A.	24-36q	18q[12]	48q	opt.			x
	Middle Tennessee State College, Murfreesboro	M. A.	15s	18s	32s	opt.		x	x
	Vanderbilt University, Nashville	M. A. T.	18s	18s max.	36s	opt.	x		
Texas	East Texas State College, Commerce	M. Ed.	24s	12s	36s	opt.			
	Hardin-Simmons University, Abilene	M. Ed.	12s	18s	30s	opt.			x
	Incarnate Word College, San Antonio	M. A., M. Ed.	12-18s	18s	20-30s	[13]	x, M. A.	x	x
	North Texas State College, Denton	M. Ed.	18s	18s	36s	opt.			x
	Prairie View Agric. and Mec. College, Prairie View	M. S.	18s	9s	30s	req.		x	x
	St. Mary's University, San Antonio	M. A.	36s	0	36s	opt.		x	
	Sam Houston State Teachers College, Huntsville	M. Ed., M. A.	18s	*	30s, M. A. 36s, M. Ed.	req. M. A.	x, M. A.		x
	Stephen F. Austin State College, Nacogdoches	M. A.	18s	12s	30-36s	opt.			x
	Texas Christian University, Fort Worth	M. S. in T. of Math.	18s	12s	30s	req.			x
	Texas Southern University, Houston	M. Ed.	18s	18s	36s	req.			x
	Texas Technological College, Lubbock	M. S. in Educ.	18-24s	12-18s	36s	opt.	[14]		x
	West Texas State College, Canyon	M. Ed.	24s	12s	36s	opt.	x	x	x
Vt.	University of Vermont, Burlington	M. A. T.	24s	6s	30s				
Va.	Madison College, Harrisonburg	M. S.	18-21s	9s	30s	opt.			x
	University of Virginia, Charlottesville	M. A. T., M. Ed.	12s, M. A. T. 15s M. Ed.	12s, M. A. T. 9s, M. Ed.	30s	opt., M. Ed.			x
Wash.	Gonzaga University, Spokane	M. S. of Ed. in Nat. Sci.	18s	6s	30s	req.	x	x	x
	Seattle University, Seattle	M. S. in Nat. Sci.	30q	0	45q	opt.			x
	University of Washington, Seattle	M. A.	39q	*	*	req.			
	Washington State University, Pullman	M. A. T.	26s	0	32s				x
	Western Washington College of Education, Bellingham	M. Ed., M. T. of Math.	33-36q	12q	45q	opt.			x
W. Va.	West Virginia University, Morgantown	M. S.	24-30s	0	30s	opt.			x
Wis.	University of Wisconsin, Madison	M. A.	12s	12s	24s	opt.			x
	University of Wisconsin, Milwaukee	M. S. in Math.-Ed.	12s	12s	24s	*	*	x	x
Wyo.	University of Wyoming, Laramie	M. S. in Nat. Sci.	10s	0	30s				x

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[12] Not required of those students who have met the undergraduate requirements in education.

[13] A thesis is required for the M. A. degree, optional for the M. Ed. degree

[14] Statistics may be substituted for language.

Section C

Master's Programs in Statistics

Master's degrees in statistics are conferred at 36 institutions. Since only a few institutions provided information about the details of these programs, only the names of the institutions conferring such degrees are given in Table 3. This list has for the most part been compiled from the 1956-1957, 1957-1958, and 1958-1959 Earned Degrees reports of the U. S. Office of Education.

TABLE 3.--Institutions conferring master's degrees in statistics

Alabama	University of Alabama, University
California	Stanford University, Stanford University of California at Berkeley University of California at Los Angeles
Colorado	University of Denver, Denver
Delaware	University of Delaware, Newark
District of Columbia	American University George Washington University
Illinois	University of Chicago, Chicago University of Illinois, Urbana
Iowa	Iowa State University, Ames State University of Iowa, Iowa City
Kansas	Kansas State University, Manhattan
Louisiana	Tulane University, New Orleans
Massachusetts	Harvard University, Cambridge
Michigan	Michigan State University, East Lansing University of Michigan, Ann Arbor
Minnesota	University of Minnesota, Minneapolis
Missouri	University of Missouri, Columbia
New Jersey	Rutgers, The State University, New Brunswick
New York	Columbia University, New York Cornell University, Ithaca New York University, New York University of Rochester, Rochester
North Carolina	University of North Carolina, Chapel Hill University of North Carolina, State College, Raleigh
Ohio	Western Reserve University, Cleveland
Pennsylvania	University of Pennsylvania, Philadelphia Villanova University, Villanova
Tennessee	University of Tennessee, Knoxville
Texas	Southern Methodist University, Dallas University of Texas, Austin
Virginia	Virginia Polytechnic Institute, Blacksburg
Washington	University of Washington, Seattle
Wisconsin	University of Wisconsin, Madison
Wyoming	University of Wyoming, Laramie

Section D

Specialist Degree

Two institutions, DePaul University in Chicago and Kansas State Teachers College at Emporia, reported that they award a specialist degree, which is intermediate between a master's degree and a doctor's degree. At DePaul University the degree granted is Degree of Mathematics Specialist with a requirement of 48 semester hours beyond the bachelor's degree. Kansas State Teachers College awards the degree of Specialist in Education with general requirements beyond the master's degree as follows: 9 semester hours of professional education; 15 semester hours in courses open only to graduate students; and a field study (thesis) of not more than 6 hours.

PART II

DOCTORAL PROGRAMS

This part is divided into two sections. The first section, involving 95 different institutions and branches of multicampus institutions, deals with doctoral programs in mathematics, including mathematical statistics. The second part, involving 25 different institutions, is concerned with doctoral programs specially designed for the teaching of mathematics.

Section A

Doctoral Programs in Mathematics

During the decade of the 1950's, 76 institutions (counting as separate institutions the University of California at Berkeley, the University of California at Los Angeles, the University of North Carolina at Chapel Hill, and the University of North Carolina, State College, at Raleigh) awarded at least one doctoral degree in mathematics. Today 95 such institutions are offering doctoral programs in mathematics, including such specializations as applied mathematics and statistics, which are separate departments in some universities. Several of the respondents in this survey indicated that plans are under way to inaugurate doctoral programs at their institutions.

Table 4 gives for each institution, as applicable, the credit requirement in mathematics beyond the baccalaureate; the total credit requirement beyond the baccalaureate; the areas of specializations offered and the number of degrees conferred in these specializations for the period January 1958 to January 1961, inclusive; and the total number of degrees awarded during this period. Table 6 lists the institutions where it is possible to obtain the doctorate entirely through evening and/or Saturday study alone, and Table 7, the institutions where it is possible to obtain such a degree entirely through summer study alone.

Forty-one of the 95 institutions (about 43 percent) have no specified minimum credit requirements for the degree. Several of the respondents emphasized that the figures they gave represented the absolute minimum requirements and that generally the totals for typical students were higher. Others mentioned that, irrespective of specified requirements, the conferral of a doctorate degree depended not so much upon the accumulation of credits but upon the demonstration on the part of the candidate of qualifications considered by his faculty as being requisite for the doctorate degree and upon the writing of a thesis involving original results. Some respondents stated simply that their minimum specified requirement was three years of study beyond the baccalaureate.

The minimum credit requirements at the 51 institutions which specify them vary considerably from institution to institution. Two institutions specify the number of courses required instead of the number of credits. As in master's degree programs there are variations even within institutions which have two or more departments. Credits for thesis are included in the specified minimum requirements at 30 of the 51 institutions having such requirements; at the 21 other institutions credits for thesis are in addition to the specified minimum credit requirements.

The doctoral degree awarded in all instances is the doctor of philosophy degree (Ph.D.). Reading comprehension in two modern foreign languages is required in all programs, with the exception of two programs at Harvard University (statistics and applied mathematics, which require only one language). In addition to the major thesis required in all doctoral programs, Harvard University also requires the writing of a minor thesis on a topic not related to the major thesis, with a time limit of several weeks. Rice University had a similar requirement but discontinued it last year.

Not only is there an upward trend in the number of institutions granting doctoral degrees in mathematics, but in the number of degrees as well. The number of doctoral degrees has increased steadily, from 160 in 1949-1950 to 303 in 1959-1960. Table 5 shows that a total of 864 degrees were conferred during the period covered by this study, January 1958 to January 1961, inclusive. The State of California produced 114 of these doctorates. The State of New York produced the next largest number, 94. New York University was the leading single institution in the production of doctorates with 54, followed by the University of Illinois with 43 and the University of California at Berkeley with 42.

Table 4.--Doctoral programs in mathematics: Institutions, credit requirements, areas of specialization, and numbers of degrees, January 1958 to January 1961, inclusive.

Explanation of abbreviations and symbols:

"Not spec." means that there are no specific credit requirements.

"New prog." indicates that the program has been recently established and no degrees had yet been conferred.

State	Institution and City	Credit requirement beyond bachelor's, incl. cred. for thesis except as noted (s-semester; q-quarter, Data in parentheses are approx.)		Total number of deg. Jan. '58 to Jan. '61 inclusive	No. of deg. in area of specialization, Jan. '58-Jan. '61, incl. (x denotes specialization offered, no deg. was given)							
		In Math.	Total for the degree		Algebra	Analysis	Applied Math	Geometry	Logic	Statistics	Topology	Other
Ala.	Auburn University, Auburn	Not spec.	Not spec.	8	2	3	2	x		1	x	
	University of Alabama, University	48s	54s plus thesis	New prog.		x					x	
Ariz.	University of Arizona, Tucson	60s	75s	New prog.	x	x	x			x		
Calif.	California Institute of Technology, Pasadena	Not spec.	Not spec.	10	4	6	x				x	
	Stanford University, Stanford	75q	75q plus thesis	28	1	8	2		x	16	1	
	University of California at Berkeley	Not spec.	Not spec.	42	3	13	6	3	x	15	1	Probability 1
	University of California at Davis	Not spec.	Not spec.	New prog.	x	x		x		x	x	
	University of California at Los Angeles	Not spec.	Not spec.	30	4	11	5		2	5	1	Number Theory 2
	University of Southern California, Los Angeles	60s	60s plus thesis	4	1	3		x			x	
Colo.	Colorado State University, Fort Collins	60q	90q plus thesis	New prog.						x		
	University of Colorado, Boulder	[a]	[b]	8	5	3	x					
Conn.	Yale University, New Haven	(50s)	(50s) plus thesis	20	x	16		2	1	x	1	
Del.	University of Delaware, Newark	Not spec.	Not spec.	New prog.			x			x		
D. C.	American University	(50s)	72s	4	x	1				3		
	Catholic University	36s	54s plus thesis	9	3	3		1		1		Numer. Anal. 1
	George Washington University	Not spec.	Not spec.	7	x	1		x	x	6		
	Georgetown University	48s	48s	New prog.		x						
Fla.	Florida State University, Tallahassee	60s	60s plus thesis	New prog.	x	x					x	
	University of Florida, Gainesville	(80s)	(80s)	11[c]	3		3	2			1	
Ga.	University of Georgia, Athens	Not spec.	Not spec.	2		x					2	
Idaho	University of Idaho, Moscow	45s	60s plus thesis	New prog.			x			x		
Ill.	Illinois Institute of Technology, Chicago	96s	96s	7	2	2	2	1	x			
	Northwestern University, Evanston	108q	108q	5	x	5				x	x	
	University of Chicago, Chicago	Not spec.	Not spec.	22	5	6		1	1	4	5	
N. J.	Princeton University, Princeton	Not spec.	Not spec.	31	3	8	3	x	5	3	8	Mathematical Physics 1
	Rutgers, The State University, New Brunswick	81s	90s[h]	4	2	2				x	x	
	Stevens Institute of Tech- Technology, Hoboken	40s	90s	0		x	x					
N. Mex.	New Mexico State University, University Park	Not spec.	Not spec.	New prog.	x	x					x	
	University of New Mexico, Albuquerque	48s	60s plus thesis	New prog.	x	x	x			x	x	
N. Y.	Adelphi College, Garden City	54s	54s	New prog.	x	x	x					
	Columbia University, New York	60s[i]	60s plus thesis	18	3	3	2	x	x	7	3	
	Cornell University, Ithaca	Not spec.	Not spec.	9	1	5		x	1	1	1	
	New York University, New York	42s	72s plus thesis	54	5	19	23	2		3	2	
	Polytechnic Institute of Brooklyn, Brooklyn	(64s)	(79s)	New prog.	x	x	x					
	Rensselaer Polytechnic Institute, Troy	45-60s	60s plus thesis	3			3					
	Syracuse University, Syracuse	Not spec.	90s	4	x	2	x			x	2	
	University of Buffalo, Buffalo	64s	90s plus thesis	3	1	1				1		
	University of Rochester, Rochester	64s	64s plus thesis	3		3						
	Yeshiva University, New York	(90s)	90s	New prog.		x		x	x			
N. C.	Duke University, Durham	48s	60s	7	2	1	x		x		4	
	University of North Carolina (Chapel Hill)	Not spec.	Not spec.	17	2	1	1	x		11	2	
	University of North Carolina (Raleigh)	(45s)[j]	55s plus thesis	15			x			15		
Ohio	Case Institute of Technology, Cleveland	42s	60s plus thesis	5	1	x	3		x	x	1	
	Ohio State University, Columbus	Not spec.	135q	10	3	3	1		1	1	1	
	University of Cincinnati, Cincinnati	Not spec.	Not spec.	6	1	5	x		x			
	Western Reserve University, Cleveland	Not spec.	Not spec.	New prog.	x	x		x			x	

Ill.	University of Illinois, Urbana.............	60s	72s	43	5	29	4	x	x	5	x	
Ind.	Indiana University, Bloomington.........	75-80s	90s	7	1	x	1	1		1	1	Probability 2
	Purdue University, Lafayette............	36s	48s plus thesis	27	2	9	1			10	5	
	University of Notre Dame, Notre Dame....	Not spec.	Not spec.	1	x	x	x		1		x	
Iowa	Iowa State University, Ames................	80q[d]	100q[d]	22	3	6	3			8		Stat. Econ. 1 Ag. Eng. Math. 1
	State University of Iowa, Iowa City	Not spec.	90s	6	x	x		x		4	x	Alg. Geom. 2
Kans.	University of Kansas, Lawrence............	Not spec.	Not spec.	7	3	3				x	1	
Ky.	University of Kentucky, Lexington............	60-72s	72s	6	x	6					x	
La.	Louisiana State University, Baton Rouge.....	(60s)	Not spec.	5	1	1					1	Topological Alg. 2
	Tulane University, New Orleans.........	48s	48s plus thesis	5	3	x					1	Number Theory 1
Md.	Johns Hopkins University, Baltimore...........	Not spec.	Not spec.	3	1	2	x	x			x	Number Theory x
	University of Maryland, College Park.........	Not spec.	Not spec.	12	x	2	10	x	x	x	x	
Mass.	Boston University, Boston...............	68s	78s	8	1	2	2			3		
	Brandeis University, Waltham.............	36s	36s	New prog.	x	x		x			x	
	Harvard University (incl. Radcliffe College), Cambridge......	Not spec.	Not spec.	23	4	10	x	4	2	2	1	
	Massachusetts Institute of Technology, Cambridge...........	(36s)	(57s) plus thesis	21	2	7	6	2	2		1	Probability 1
Mich.	Michigan State University, East Lansing....	120-145q[e]	120-145q[f]	10	1	3	2	x		4	x	Number Theory x
	University of Michigan, Ann Arbor...........	Not spec.	Not spec.	26	2	5	4	1	1	3	6	[g]
	Wayne State University, Detroit.............	90s	90s	6	x	4	x			1	1	
Minn.	University of Minnesota, Minneapolis..........	45q	67 1/2 q plus thesis	16	2	14						
Mo.	University of Missouri, Columbia............	Not spec.	Not spec.	4	x	2		1			1	
	St. Louis University, St. Louis............	Not spec.	(60s) plus thesis	9	x	2		x		4	1	Number Theory 2
	Washington University, St. Louis.............	72s	72s plus thesis	2	1	1						
Mont.	Montana State College, Bozeman.............	72q	72q plus thesis	New prog.	x		x			x	x	
Neb.	University of Nebraska, Lincoln.............	74-90s	90s	2	x	1			1	x	x	Number Theory x

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[a] In algebra and analysis, 30 sem. hrs. in courses numbered above 500; in applied math., 33 sem. hrs.

[b] In algebra and analysis, 30 sem. hrs. in courses numbered above 500; in applied math., 48 sem. hrs.

[c] University of Florida granted 2 degrees in analysis during the period, but is not currently offering this specialization.

[d] Unofficial requirements.

[e] Ninety quarter hours in mathematics and statistics are required for specialization statistics.

[f] One hundred thirty-five quarter hours are required for statistics.

[g] The University of Michigan also offers the following specializations: Functional analysis, number theory, actuarial science, and the history of mathematics. Four doctoral degrees in functional analysis were conferred during the period covered by this study.

Okla.	Oklahoma State University, Stillwater.......	90s	90s	9		3				6		
	University of Oklahoma, Norman.............	90s	90s	2		x		x			2	
Ore.	Oregon State University, Corvallis.............	80q	(135q)	5	x	3	1	x			1	Comp. Sci. & Tech. x
	University of Oregon, Eugene..............	126q	135q	6		3				1	x	Number Theory 2
Pa.	Bryn Mawr College, Bryn Mawr...........	6 courses	8 courses	0		x					x	
	Carnegie Institute of Technology, Pittsburgh	96s	96s	10	1	4	3			2		
	Lehigh University, Bethlehem...........	(60s)	(60s) plus thesis	4	x	3		1	x		x	
	Pennsylvania State University, University Park	60s[k]	90s[k]	1		1			x			
	University of Pennsylvania, Philadelphia....	54s	54s[j]	16	4	6					4	Number Theory 2
	University of Pittsburgh, Pittsburgh...........	Not spec.	Not spec.	15	1	4	3	1			6	
R. I.	Brown University, Providence...........	Not spec.	Not spec.	24	1	2	17				2	Math. Econ. 2
S. C.	University of South Carolina, Columbia...	Not spec.	Not spec.	New prog.	x	x					x	
Tenn.	University of Tennessee, Knoxville............	Not spec.	Not spec.	13	3	4		1			5	
	Vanderbilt University, Nashville.............	54s	72s plus thesis	2	x	x		x			1	Lattice Theory 1
Texas	Agricultural and Mechanical College of Texas, College Station........	Not spec.	96s	1								Differential Equa. 1
	Rice University, Houston.............	8 Advanced Courses	8 Advanced Courses	5	1	4	x					
	University of Texas, Austin................	Not spec.	Not spec.	14	x	7	1			x	3	Differential Equa. 3
Utah.	University of Utah, Salt Lake City........	Not spec.	Not spec.	1							1	
	University of Virginia, Charlottesville........	Not spec.	Not spec.	7	x	1					6	
	Virginia Polytechnic Institute, Blacksburg.	105q[l]	135q	16	x	x	x	x		16	x	
Wash.	University of Washington, Seattle.........	Not spec.	Not spec.	17	4	7		2		1	3	
	Washington State University, Pullman....	Not spec.	Not spec.	1	x	1	x	x		x	x	
Wis.	University of Wisconsin, Madison............	Not spec.	Not spec.	18	6	6		2			4	

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[h] For specialization in statistics 15 semester hrs. in mathematics and 75 semester hrs. in statistics are required. This specialization was first authorized in 1959.

[i] Thirty-five semester hrs. are required for specialization in statistics.

[j] Thirty-nine semester hrs. in mathematics and statistics are required for specialization in statistics.

[k] Pennsylvania State University went into a modified quarter system in June 1961.

[l] Sixty quarter hrs. of mathematics and statistics are required for specialization in statistics.

TABLE 5.--Summary of doctoral programs in mathematics
(universe of 95 institutions)

Area of Specialization	Number of institutions offering this specialization	Number of doctorates awarded in this specialization, Jan. '58 to Jan. '61, incl.
Algebra	77	110
Analysis	86	304
Applied Mathematics	49	114
Geometry	40	28
Logic	25	18
Statistics	49	164
Topology	67	94
Number Theory	9	9
Probability	3	4
Other	11	19

Total number of doctorates, January 1958 to January 1961, inclusive: 864

Table 6.--Institutions at which it is possible to earn a doctor of philosophy degree in mathematics through evening and/or Saturday alone

American University, Washington, D. C.
Georgetown University, Washington, D. C.
George Washington University, Washington, D. C.
Illinois Institute of Technology, Chicago, Illinois.
Adelphi College, Garden City, New York.
New York University, New York, New York.
University of Buffalo, Buffalo, New York.
Yeshiva University, New York, New York.
University of Pittsburgh, Pittsburgh, Pennsylvania.

Table 7.--Institutions at which it is possible to earn a doctor of philosophy degree in mathematics through summer study alone

Michigan State University of Agriculture and Applied Science, East Lansing Michigan. (Statistics only)
Montana State College, Bozeman, Montana.
University of North Carolina, Chapel Hill, North Carolina.
University of Pittsburgh, Pittsburgh, Pennsylvania.

Section B

Doctoral Programs Specially Designed For the Teaching of Mathematics

Twenty-five different institutions offer a doctoral program specially designed for the teaching of mathematics. Four of these programs have been inaugurated within the past few years.

During the three year period covered by this study, 63 doctorates in the teaching of mathematics were awarded, making the total program throughout the United States considerably smaller than the program in straight mathematics, with 864 degrees. Nevertheless, because of the growing interest in the teaching of mathematics at all levels, these programs are significant.

The objectives of these programs vary. The objective at Yeshiva University is to prepare college teachers of mathematics. An expository or analytical thesis and 9 credits in education and psychology are the only essential differences with the traditional doctorate in mathematics. In most other programs the objective is to prepare an individual with dual competencies in mathematics and in professional education. Such degree holders frequently become senior college or junior college teachers of mathematics, professors of mathematics education in universities, and specialists in mathematics education at local, state, and national levels.

The Doctor of Philosophy (Ph.D.) degree is the only degree offered at 8 of the 25 institutions; the Doctor of Education (Ed.D.) degree the only degree in 6 others; and either the Ph.D. or the Ed.D. in the other 11. The credit requirements in mathematics and in professional education vary from institution to institution.

In some instances the requirements in mathematics exceed those in professional education, and in others the reverse is true. The modern foreign language requirements also vary. Nine institutions require two languages. Three institutions had no foreign language requirement, and another required it only if it were considered needed for the thesis. At the institutions where the language requirements varied with the kind of degree, the Ph.D. degree requirements in languages were higher than those for the Ed.D. At several institutions proficiency in another competency, such as statistics or the ability to use a computer, may be substituted for the foreign language requirement. In addition to the major thesis Pennsylvania State University requires the writing of a minor thesis.

Teachers College of Columbia University, with 18, was the leading producer of these doctorates during the period January 1958 to January 1961, and New York University was second with 15, Ohio State University and the University of Texas were tied for third at 5. The institutions at which it is possible to obtain this degree through evening and/or Saturday study alone is given in Table 9, and those at which the degree can be obtained by summer study alone is given in Table 10.

Table 8.--Doctoral programs specially designed for the teaching of mathematics: Institutions, kinds of degrees awarded, credit and foreign language requirements, and numbers of degrees from January 1958 to January 1961, inclusive.

Explanation of abbreviations and symbols:

Ph.D. - Doctor of Philosophy; Ed. D. - Doctor of Education

"Not spec." means that there are no specific credit requirements.

"New Prog." indicates that the program has been recently established and no degrees had yet been conferred.

An asterisk "*" means that information relative to that item was not supplied by the respondent.

State	Institution and city	Degree (s) awarded	Credit requirement beyond baccalaureate (s denotes semester; q, quarter)			Number of foreign languages required	No. of degrees granted Jan. '58 to Jan. '61
			In math.	In education courses	Total for the degree		
Calif.	Stanford University, Stanford..........	Ph. D., Ed. D.	*	*	*	*	New Prog.
Fla.	Florida State University, Tallahassee	Ph. D., Ed. D.	30s	20s	60s	2 for[a] Ph. D.	1
	University of Florida Gainesville........	Ed. D.	27-42s	27-42s	Approx. 84s	None	1
Ill.	Northwestern University, Evanston.....	Ed. D., Ph. D.	36q	54q	108q	1 for Ph. D.	0
	University of Illinois, Urbana............	Ph. D., Ed. D.	24s	48s	96s	2 for Ph. D.	3
Ind.	Indiana University, Bloomington.......	Ed. D., Ph. D.	30s	30s	90s	2 for Ph. D.	1
	Purdue University, Lafayette.........	Ph. D.	48s	21s	96s plus thesis	2[b]	0
Iowa	State University of Iowa, Iowa City....	Ph. D.	Not spec.	Not spec.	90s	2	1
Kans.	University of Kansas, Lawrence.........	Ph. D.	35s	35s	90s	2	0
La.	Louisiana State University, Baton Rouge..	Ph. D., Ed. D.	36s	36s Ph. D., 48s Ed. D.	72s	2	New Prog.
Mass.	Harvard University, Cambridge.........	Ed. D. in Math. Educ.	*	*	*	*	New Prog.
Mich.	University of Michigan, Ann Arbor.........	Ed. D. in Math., Ph. D.	28s, Ed. D. 50s, Ph. D.	37s, Ed. D. 12s, Ph. D.	65s	2	1 Ph. D. 1 Ed. D.
Mo.	Washington University, St. Louis..........	Ed. D., Ph. D.	Not spec.	Not spec.	76s, Ed. D. 72s, Ph. D.	1 for Ed. D. 2 for Ph. D.	0
N. Y.	Columbia University, New York.........	Ed.D., Ph. D.	30s, Ed. D. 40s, Ph. D.	37s	90s, Ed. D. 75s, Ph. D.	2 for Ph. D.	4 Ph. D. 14 Ed. D.
	New York University, New York.........	Ed.D., Ph. D.	Not spec.	Not spec.	79s, Ed. D. 67s, Ph. D.	2 for Ph. D.	12 Ph. D. 3 Ed. D.
	Syracuse University, Syracuse..........	Ph. D.	33s	12s	90s	2[c]	0
	Yeshiva University,[d] New York.........	Ph. D.	54s	9s	90s	2	New Prog.
Ohio	Ohio State University, Columbus.........	Ph. D.	M. A. in Math. or 20q	60q	135q	1[e]	5
Okla.	Oklahoma State University, Stillwater.....	Ed. D.	60s	30s	Not spec.	None	4
Pa.	Pennsylvania State University, University Park..........	D. Ed.	45s	15s	90s	None	New Prog.
Tenn.	George Peabody College for Teachers Nashville..........	Ph. D.	72q	16q[f]	108q	2	2
Texas	North Texas State College, Denton...	Ed. D.	Not spec.	36s	90s	[g]	0
	University of Texas, Austin............	Ph. D., Ed. D.	Not spec.	Not. spec.	Not spec.	2	5
Va.	University of Virginia, Charlottesville.....	Ed. D.	30s	42s plus thesis	72s plus thesis	2	2
Wis.	University of Wisconsin, Madison...........	Ph. D.	Not spec.	Not spec.	Not spec.	2	3

a/ For Ed.D. proficiency in statistics is substituted.

b/ Or one language and statistics.

c/ Use of computer, statistics may be used as substitutions.

d/ This is a doctoral program for college teachers of mathematics.

e/ Substitutions permitted in special cases.

f/ Not required if student enters with sufficient background in professional education.

g/ A foreign language requirement is included only if considered needed for thesis.

Note: University of Maryland reported that a doctoral program specially designed for teaching of mathematics is in the process of being established.

Table 9.--Institutions at which it is possible to earn a doctoral degree in a program specially designed for the teaching of mathematics, through evening and/or Saturday study alone.

New York University, New York, N.Y.

Table 10.--Institutions at which it is possible to earn a doctoral degree in a program specially designed for the teaching of mathematics, through summer study alone

New York University, New York, N.Y.
Pennsylvania State University, University Park, Pa.
University of Texas, Austin

PART III

HIGH SPEED COMPUTERS

Since World War II the field of computing has been the most rapidly growing branch of mathematics. More and more persons with varying levels of mathematical background have been attracted to it, and indications are that greater numbers will be needed in the future.

Colleges and universities have been providing training in high speed computing in increasingly greater numbers. Courses in computer programming, data processing, and numerical analysis have appeared in the curricular offerings of many departments. At many larger universities computation centers separate from the mathematics departments have been established, and at these institutions training for this kind of work is not specifically a function of the mathematics department, although the instruction in mathematics provided by the department is fundamental and basic to those planning careers in computing.

In the questionnaire department, heads of mathematics were asked to give the make and model number of each high speed computer on the campus of the institution and the year of installation of each. Because of the complexity of some institutions complete information was not furnished by department heads, and it was necessary to make direct contact with the directors of the computation centers or to use other sources of information.

The list of 158 institutions and their high speed computers is given in Table 11. It will be noted by the recency of installation dates that in many of the institutions which have been in the computing field for some time newer models are replacing older models. Many institutions have acquired their first high speed computer in the last few years. The department heads of a number of institutions, principally smaller ones in metropolitan areas, mentioned that although they had no computer of their own, they had use of industrial facilities near by, and that they provided courses which were appropriate for those interested in careers in high speed computing.

A total of 27 institutions also provided information about their analog computers. The list of institutions having analog computers is not given here as it would undoubtedly be incomplete, since many institutions did not mention analog computers that they may have had.

It should be remarked that more and more mathematics departments are feeling the need and desire for high speed computers. In answer to a query as to what facilities they needed but do not have, many department heads expressed this need and interest in obtaining a computer.

TABLE 11.--Institutions with high speed digital computers, make and model number, and year of installation, if known.

Alabama		
	Auburn University, Auburn	IBM 650, (1959)
	University of Alabama, University	Remington Rand Solid State 80, (1961)
Arizona		
	Arizona State University, Tempe	G. E. 304, (1960)
	University of Arizona, Tucson	IBM 650, (1957)
Arkansas		
	University of Arkansas, Fayetteville	IBM 650, (1960)
California		
	California Institute of Technology, Pasadena	Burroughs 220
	California State Polytechnic College, San Luis Obispo	Bendix G-15, (1960)
	Chico State College, Chico	IBM 1620 (to be available 1961-1962)
	Claremont Men's College, Claremont	Bendix G-15, (1960)
	Harvey Mudd College, Claremont	IBM 1620 (expected by Sept, 1961)
	Los Angeles State College, Los Angeles	IBM 650, (1961)
	Pomona College, Claremont	Bendix G-15, (1958)
	Sacramento State College, Sacramento	LGP-30, (1961)
	San Diego State College, San Diego	IBM 650, (1960)
	San Jose State College, San Jose	IBM 650
	Stanford University, Stanford, Palo Alto	IBM 650, (1957); Burroughs 220, (1960)
	University of California at Davis	IBM 1620, (1961)
	University of California at Berkeley (does not include computers in use by Lawrence Radiation Laboratory and other AEC projects)	IBM 701, (1956); Bendix G-15, (1959); IBM 704, (1959); IBM 1620, (1961); IBM 1620 on order
	University of California at Los Angeles	SWAC (at least 10 years old); IBM (7090, (1961); IBM 1401, (1961); IBM 1401, expected in January 1962, Variable Logic Computer under construction.
	University of California at Riverside	IBM 1620
	University of Southern California, Los Angeles	Remington Rand Solid State 80, (1961); Minneapolis Honeywell 800, (1961)
Colorado		
	Colorado State University, Fort Collins	IBM 1620, (1961)
	University of Colorado, Boulder	Bendix Digital Computer, part no. G-15-D serial no. 155, (1958)
	University of Denver, Denver	Burroughs 205, (1955)
Connecticut		
	Wesleyan University, Middletown	LGP-30, (1960)
	Yale University, New Haven	IBM 650; IBM 7070 on order
Delaware		
	University of Delaware, Newark	Bendix G-15, (1958)
District of Columbia		
	American University	3 Royal McBee CPC computers
	George Washington University	The Logistics Computer, (1953); Abel, (1951)
	Georgetown University	2 Burroughs E-101
Florida		
	Florida State University, Tallahassee	IBM 650
	University of Florida, Gainesville	IBM 650
Georgia		
	Georgia Institute of Technology, Atlanta	UNIVAC 1101; Burroughs 220; IBM 650
	Georgia State College of Business Administration, Atlanta	IBM 305 RAMAC
	University of Georgia, Athens	IBM 650, (1960)
Hawaii		
	University of Hawaii, Honolulu	IBM 650, (1959)
Illinois		
	Illinois Institute of Technology, Chicago	IBM 650
	Northwestern University, Evanston	IBM 650, (1958)
	Southern Illinois University, Carbondale	IBM 650, (1959)
	University of Illinois, Urbana	ILLIAC; IBM 650
	University of Chicago, Chicago	UNIVAC I; MANIAC III; 2 IBM's 1620; LGP-30
Indiana		
	Indiana University, Bloomington	IBM 650, (1956); IBM 709 System and Auxiliary Tape Equipment on order
	Purdue University, Lafayette	Burroughs 205; Remington Rand Type 80

	Rose Polytechnic Institute, Terre Haute	Bendix G-15D, Alphanumeric, (1960)
	University of Notre Dame, Notre Dame	IBM 610
	Valparaiso University, Valparaiso	IBM 610
Iowa	Iowa State University, Ames	IBM 650, (1957); CYCLONE, (1959)
	State University of Iowa, Iowa City	IBM 7070, (1961)
Kansas	Kansas State University, Manhattan	IBM 650, (1958)
	University of Kansas, Lawrence	IBM 650; IBM 1620 on order
	University of Wichita, Wichita	IBM 610, (1959)
Kentucky	University of Kentucky, Lexington	IBM 650
	University of Louisville, Louisville	IBM 1620, (1960)
Louisiana	Louisiana Polytechnic Institute, Ruston	LGP-30
	Louisiana State University, Baton Rouge	IBM 650
	Tulane University, New Orleans	IBM 650, (1958)
Maryland	University of Maryland, College Park	IBM 1620; LGP-30; IBM 1401 on order
Massachusetts	Boston University, Boston	IBM 650
	Harvard University, Cambridge	UNIVAC I; IBM 650
	Lowell Technological Institute, Lowell	RPC-4,000 Computer on order
	Massachusetts Institute of Technology, Cambridge (does not include computers in use at the Lincoln and Mitre Laboratories)	IBM 704; 2 IBM 650; 4 LPG-30; Bendix G-15; TX-0
	Northeastern University, Boston	IBM 650, (1959)
	University of Massachusetts, Amherst	IBM 1620 to be installed in 1962
	Worcester Polytechnic Institute, Worcester	IBM 610, (1959)
Michigan	General Motors Institute, Flint	IBM 1620
	Lawrence Institute of Technology, Southfield	Burroughs E-101
	Michigan College of Mining and Technology, Houghton	Bendix G-15D
	Michigan State University, East Lansing	MYSTIC, 1 AS type, (1956)
	University of Detroit, Detroit	Burroughs E-102, (1956); IBM 1620, (1961)
	University of Michigan, Ann Arbor	IBM 704, (1959); IBM 709, (1960)
	Wayne State University, Detroit	IBM 650 RAMAC
Minnesota	Carleton College, Northfield	IBM 610, (1959)
	St. Olaf College, Northfield	IBM 610 (Jointly with Carleton College)
	University of Minnesota, Minneapolis	UNIVAC 1103, (1958)
Mississippi	Mississippi Southern College, Hattiesburg	Have on order RPC 4,000
	Mississippi State University, State College	IBM 650, (1958)
	University of Mississippi, University	IBM 650, (1958)
Missouri	Drury College, Springfield	LGP-30, (1959)
	Lincoln University, Jefferson City	IBM 1620, (1961)
	St. Louis University, St. Louis	IBM 610; IBM 1620, (1961)
	University of Missouri, Columbia	Burroughs 205, (1960)
	Washington University, St. Louis	IBM 650
Montana	Montana State College, Bozeman	IBM 650
Nebraska	University of Nebraska, Lincoln	Burroughs 205, (1960)
New Hampshire	Dartmouth College, Hanover	LGP-30, (1959)
	University of New Hampshire, Durham	IBM 1620, (1961)
New Jersey	Newark College of Engineering, Newark	IBM 1620 being acquired
	Princeton University, Princeton	IBM 650; IBM 7090 on order
	Rutgers The State University, New Brunswick	IBM 650, (1957)
	Stevens Institute of Technology, Hoboken	IBM 1620 System, (1961)
New Mexico	University of New Mexico, Albuquerque	CRC 102-A, (1957); MANIAC I from Los Alamos (Not yet operative)

New York		
	City College, New York	LGP-30, (1960)
	Clarkson Institute of Technology, Potsdam	IBM 1620, (1961)
	Columbia University, New York	IBM 650, (1954); IBM 650, (1958); IBM 1620, (1961)
	Cornell University, Ithaca	Burroughs 220, (1959)
	Fordham University, New York	Bendix G-15, (1959)
	New York University, New York	IBM 704
	Polytechnic Institute of Brooklyn, Brooklyn	IBM 650
	Pratt Institute, Brooklyn	IBM 1620, (1961)
	Rensselaer Polytechnic Institute, Troy	IBM 650, (1958)
	Syracuse University, Syracuse	IBM 650, (1959)
	University of Rochester, Rochester	IBM 650
North Carolina		
	Duke University, Durham	IBM 650-653, being replaced by IBM 7070
	University of North Carolina, State College, Raleigh	IBM 650, (1956)
	University of North Carolina, Chapel Hill	UNIVAC 1105, (1959)
Ohio		
	Case Institute of Technology, Cleveland	UNIVAC I, (1958); Burroughs 220, (1960)
	Fenn College, Cleveland	Burroughs 205, (1960)
	John Carroll University, Cleveland	LGP 30-66, (1960)
	Miami University, Oxford	IBM 650
	Ohio State University, Columbus	IBM 704, (1958)
	Ohio University, Athens	LGP-30
	University of Cincinnati, Cincinnati	IBM 650, (1958)
	University of Dayton, Dayton	National 304; Burroughs 205; Burroughs 220
	Western Reserve University, Cleveland	G. E. 225, (1961)
Oklahoma		
	Oklahoma State University, Stillwater	IBM 650
	University of Oklahoma, Norman	IBM 650
Oregon		
	Oregon State University, Corvallis	ALWAC III E, (1957); IBM 1620, (1961)
	University of Oregon, Eugene	IBM 1620
Pennsylvania		
	Bucknell University, Lewisburg	Burroughs E-101, (1958); IBM 1620, (1961)
	Carnegie Institute of Technology, Pittsburgh	IBM 650, (1957)
	Drexel Institute of Technology, Philadelphia	IBM 650
	Lafayette College, Easton	IBM 607
	Lehigh University, Bethlehem	LGP-30, (1957)
	Pennsylvania State University, University Park	IBM System 650 RAMAC, (1959)
	Temple University, Philadelphia	IBM 650
	University of Pennsylvania, Philadelphia	UNIVAC I
	University of Pittsburgh, Pittsburgh	IBM 7070
	Villanova University, Villanova	IBM 1620, (1961)
Puerto Rico		
	University of Puerto Rico, Mayaguez	IBM 650, (1958)
Rhode Island		
	Brown University, Providence	IBM 7070 System, (1960)
	University of Rhode Island, Kingston	IBM 610
South Carolina		
	Clemson College, Clemson	RPC-4,000
	University of South Carolina, Columbia	LGP-30, (1959)
Tennessee		
	Christian Brothers College, Memphis	IBM 1620 on order
	Tennessee Polytechnic Institute, Cookeville	IBM 1620
	University of Tennessee, Knoxville	IBM 1620, (1961)
	Vanderbilt University, Nashville	IBM 650, (1959)
Texas		
	Agricultural and Mechanical College of Texas, College Station	IBM 650, (1956); IBM 709, (1961)
	Howard Payne College, Brownwood	LGP-30, (1960)
	Lamar State College of Technology, Beaumont	LGP-30, (1958)
	Rice University, Houston	A computer built by Rice University and similar to MANIAC II; LGP-30
	Southern Methodist University, Dallas	UNIVAC Scientific 1103; UNIVAC Solid State 90; UNIVAC 120

	Texas Technological College, Lubbock	CRC 102-A (1959); Litton 20-40, (1960); IBM 1620, (Dec. 1961, tentative)
	Texas Western College, El Paso	Bendix G-15-J
	Trinity University, San Antonio	LPG-30
	University of Houston, Houston	IBM 650
	University of Texas, Austin	Control Data Corporation 1604, (1961); Control Data Corporation 160, (1961)
Utah	Brigham Young University, Provo	IBM 650, (1958)
	University of Utah, Salt Lake City	Burroughs 205
Vermont	University of Vermont, Burlington	IBM 1620, (1961)
Virginia	University of Virginia, Charlottesville	Burroughs 205, (1960)
	Virginia Polytechnic Institute, Blacksburg	IBM 650, (1958)
Washington	University of Washington, Seattle	IBM 709, (1960)
	Washington State University, Pullman	IBM 650, (1956); IBM 709, expected in 1961
West Virginia	West Virginia University, Morgantown	IBM 610, (1958); IBM 650, (1960)
Wisconsin	Marquette University, Milwaukee	IBM 650, (1958); plan to change to IBM 1620 in September, 1961
	University of Wisconsin, Madison	Control Data Corporation 1604, (1961); 3 IBM 1620, (1961)
Wyoming	University of Wyoming, Laramie	Bendix G-15D

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ASSISTANTSHIPS AND FELLOWSHIPS IN MATHEMATICS IN 1962-1963

ACADIA UNIVERSITY, WOLFVILLE, NOVA SCOTIA, CANADA
K.D.C. Haley, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1100; Graduates: 12.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 40; Graduates: 2.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	1	9	$2000	$ 200	7 hours/week teaching

Applications may be filed at any time.

ADELPHI COLLEGE, GARDEN CITY, NEW YORK
John H. Kreitner, Head, Department of Mathematics
Sherman C. Lowell, Head, Department of Graduate Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 84; Graduates: 256.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Tuition Scholarships	20	9	$ 500 - $1000	$ 1000	0-10 hours/week
* Research Assistantships	4	9	$2000 - $3250	$ 1000	20-30 hours/week
** Teaching Assistantships	4	9	$ 850 - $1900	waived	3-6 class hours

* Awarded only to prospective Ph.D. candidates.
** Requires Master's degree.

Applications must be filed by April 1, 1962.

UNIVERSITY OF AKRON, AKRON, OHIO
Samuel Selby, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4500; Graduates: 450.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 30; Graduates: 12.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships		12	up to $2000		minimum of 6 hours teaching load each semester

Note: Student can take work towards M.A.

Applications must be filed by November 15, 1961.

UNIVERSITY OF ALABAMA, UNIVERSITY, ALABAMA
Julian D. Mancill, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 7000; Graduates: 1000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 100; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	25	9	$1575 - $2125	$ 265	6 hours/week
Fellowships	3	9	$1400 - $2625	$ 265	6 hours/week
Scholarships	2	9	$1000	$ 265	none

Applications must be filed by March 15, 1962.

UNIVERSITY OF ALASKA, COLLEGE, ALASKA
Francis D. Parker, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1150; Graduates: 120.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 30; Graduates: 6.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	3	9	$2300	$ 100	18 hours/week

Applications must be filed by April 1, 1962.

UNIVERSITY OF ALBERTA, EDMONTON, ALBERTA, CANADA
M. Wyman, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8000; Graduates: 1000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Teaching Assistantships	12	8	$2000 - $2500	$ 200*	5-6 hours/week
**Graduate Fellowships	4	12	$3600		research
**Graduate Teaching Fellowships	8	8 12	$2400 $3600		5-6 hours/week for 8 months

* Tuition bursaries covering fees are available.
** Not restricted to mathematics.

Applications must be filed by March 1, 1962.

(see advertisement below)

UNIVERSITY OF ALBERTA
EDMONTON, CANADA

Graduate Study in Mathematics
Degrees: M.Sc., Ph.D.

Fields: Algebra, Analysis, Number Theory, Relativity, Quantum Theory, Field Theory, Tensor Analysis, Mathematical Statistics

Teaching Assistantships

Duties: 5-6 hours teaching or demonstration for 8 months.

Stipend: $2,000 (without master's degree)
$2,400 (with master's)

Apply: M. Wyman, Head
Department of Mathematics
University of Alberta
Edmonton, Canada

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ANDREWS UNIVERSITY, BERRIEN SPRINGS, MICHIGAN
Edward J. Specht, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1200; Graduates: 225.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 28; Graduates: 8.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	2	9	$ 550	all fees waived	10 hours/week
	2	9	$ 400	$ 300 approx.	none
	1	9	$ 300	$ 300 approx.	none
	1	9	$ 250	$ 300 approx.	none

Applications must be filed by April 15, 1962.

ARIZONA STATE UNIVERSITY, TEMPE, ARIZONA
Lloyd L. Lowenstein, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 9500; Graduates: 3500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 250; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend*	Service required (hrs/wk)
	20	9	$2000	$ 100 per sem.	6 hours/week

* Out-of-State fee waived.

Applications must be filed by January 15, 1962.

UNIVERSITY OF ARIZONA, TUCSON, ARIZONA
Harvey Cohn, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 80; Graduates: 80.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	40	½ time 9	$2000	Out-of-State fees paid	6 hours/week teaching
* Graduate Assistantships	10	½ time 9	$2250 - $2700	Out-of-State fees paid	6 hours/week teaching
Research Assistantships	Available at comparable rates in selected fields.				

* Require Master's degree.

Applications must be filed by February 15, 1962.

UNIVERSITY OF ARKANSAS, FAYETTEVILLE, ARKANSAS
Davis P. Richardson, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6000; Graduates: 700.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 110; Graduates: 25.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount*		
	24	9	$ 828 per class taught	$100/ semester**	Teach one course of 3 hrs. cr. ***

* This is the amount for 1961-1962. A higher rate is anticipated for 1962-1963.
** Out-of-State fees waived.
*** Some assistantships for teaching two classes may be awarded.

Applications must be filed by March 1, 1962.

ASSUMPTION UNIVERSITY OF WINDSOR, WINDSOR, ONTARIO, CANADA
Reverend D. T. Faught, C.S.B., Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 1620;	Graduates: 80.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 75;	Graduates: 8.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Fellowships	6	9	$1300 - $1425	$ 412	5-9 hours/week supervising problems laboratory

Applications must be filed by March 31, 1962.

AUBURN UNIVERSITY, AUBURN, ALABAMA
W. V. Parker, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 8300;	Graduates: 900.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 75;	Graduates: 67.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	10	9	$1800 - $1980	$ 190	5 hours/week teaching
	7	9	$1620	$ 190	5 hours/week teaching
	8	9	$1440	$ 190	5 hours/week teaching or 13 hours/week paper grading and tutoring
	2	12	$1560	$ 190	none
* NDEA Fellowships	6	9	$2000 - $2200	none	none
* NDEA Fellowships	4	9	$2400	none	none
* NDEA Fellowships	3	12	$2400	none	none

* Dependency allowance.

Applications must be filed by March 1, 1962.

BALL STATE TEACHERS COLLEGE, MUNCIE, INDIANA
P. D. Edwards, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8000; Graduates: 1400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 750; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	5	9	$1500	$ 87/quarter	4 hours/week teaching

Note: Can complete M.A. in one year plus one summer.

Applications must be filed by March 31, 1962.

BARNARD COLLEGE, NEW YORK, NEW YORK
E. R. Lorch, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1500; Graduates: --- .
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 40; Graduates: --- .

Assistantships - see Columbia University

BOSTON COLLEGE, CHESTNUT HILL, MASSACHUSETTS
Reverend Stanley J. Bezuszka, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5200; Graduates: 350.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 260; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Fellowships	4	9	$2000	none	6 hours/week teaching
Assistantships	2	9	$1500 - $1800	$ 630 *	12 hours/week
Assistantships	6	9	$1500	$ 630	10-12 hours/week

* **Tuition may be paid in addition to stipend.**

Applications must be filed by March 15, 1962.

BOSTON UNIVERSITY, BOSTON, MASSACHUSETTS
F. Scheid, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: --- .
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: ---; Graduates: --- .

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	6	9	$1500	none	15 hours/week
	2	9	---	none	10 hours/week
	1	9	$ 500	$1150	none

Applications must be filed by February 20, 1962.

BOWLING GREEN STATE UNIVERSITY, BOWLING GREEN, OHIO
F. C. Ogg, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6400; Graduates: 500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 275; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Assistantships	6	9	$1800	$ 200	6 hours one semester, 3 hours other semester

Note: Free registration for one summer.

Applications must be filed by March 1, 1962.

BRANDEIS UNIVERSITY, WALTHAM, MASSACHUSETTS
Edgar H. Brown, Jr., Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1307; Graduates: 330.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 47; Graduates: 35.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	14	9	$ 900 - $2000	none	12-18 hours/week
Research Assistantships	5	9	$1800 - $2200	none	none

Applications must be filed by February 15, 1962.

BRIGHAM YOUNG UNIVERSITY, PROVO, UTAH
D. W. Robinson, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 12,000; Graduates: 800.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 160; Graduates: 15.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	13	9	$1133 - $1700	$ 260/year	13-20 hours/week

Applications must be filed by March 1, 1962.

THE UNIVERSITY OF BRITISH COLUMBIA, VANCOUVER, BRITISH COLUMBIA, CANADA
R. D. James, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 14,600; Graduates: 730.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 350; Graduates: 25.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	12	8 *	$2200 - $2700	$ 346	6 hours/week
	8	8	$1300 - $1800	$ 346	3-4 hours/week

* During the 4 summer months additional grants of about $800 are available as research assistantships under U.S. Defense Department contracts or as grants from the National Research Council of Canada.

Applications must be filed by March 1, 1962.

BROOKLYN COLLEGE, BROOKLYN, NEW YORK
James Singer, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 19,000; Graduates: 2800.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 300; Graduates: 80.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
* Fellowships	5	9	$1200 - $1500	$ 15/credit	none **

* 5 Fellowships are college-wide, none specifically for mathematics.
** Students expected to carry a full program, i.e., 12 or more credits per term. Courses lead to M.A. only.

Applications must be filed by April 1, 1962.

POLYTECHNIC INSTITUTE OF BROOKLYN, BROOKLYN, NEW YORK

J. P. Russell, Administrative Officer, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1970; Graduates: 1300.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 70; Graduates: 35.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Teaching Fellowships	**5-10**	**9**	**$2000**	**Tuition remitted**	**4-6 hours/week**
Research Fellowships	**3**	**11**	**$3600 - $4200**	**$750/semester**	*****

*** Research in conjunction with thesis requirements.**

Applications must be filed by March 1, 1962.

(see advertisement below)

POLYTECHNIC INSTITUTE OF BROOKLYN

GRADUATE STUDY IN MATHEMATICS

Location: Brooklyn Campus, and newly established Long Island Graduate Center at Farmingdale, L. I., N. Y.

DEGREES: M.S. and Ph.D.

MAJOR FIELD: Applied Mathematics, Algebra, Analysis.

MINOR OPTIONS: Applied Mechanics, Aerospace Engineering, Electrophysics, Communication Theory, Automatic Control, Network Theory, Physics, etc.

FELLOWSHIPS: Teaching, Research.

Write for information to:
Dean of Graduate School
or
Department of Mathematics
Polytechnic Institute of Brooklyn
333 Jay Street
Brooklyn 1, New York

UNIVERSITY
OF CALIFORNIA
RIVERSIDE

announces a
Ph. D. program
in Mathematics
leading to research in

ALGEBRA, ANALYSIS,
AND PROBABILITY THEORY

FALL, 1962

SUBJECT TO EXPECTED STATE-WIDE APPROVAL.

BROWN UNIVERSITY, PROVIDENCE, RHODE ISLAND
David Gale, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: --- ; Graduates: --- .
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: --- ; Graduates: --- .

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Fellowships	10	9	$1500 - $2000	none	none
Research Assistantships	10	9-11	$3200 - $4000	$1250	research
Teaching Assistantships	10	9	$1500 - $2000	none	4-6 hours/week

Applications must be filed by February 15, 1962.

BROWN UNIVERSITY, PROVIDENCE, RHODE ISLAND
R. S. Rivlin, Head, Division of Applied Mathematics

Total University enrollment in 1962-1963: Undergraduates: --- ; Graduates: --- .
Applied Mathematics Majors: Number enrolled in 1962-63: Undergraduates: 102; Graduates: 45.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	*	9	$3645	$ 150 - $1125	½ time
Graduate Fellowships	*	9	$2000	none	none

* We do not have a limit on numbers but are guided by the quality of the applications received.

Applications must be filed by February 15, 1962.

BRYN MAWR COLLEGE, BRYN MAWR, PENNSYLVANIA
John C. Oxtoby, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: --- ; Graduates: --- .
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 10-12; Graduates: 3-4 .

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Assistantships	1 or 2	9	$1200	remitted	1/3 time
Fellowships	1	9	$2300	$1000	
* Emmy Noether Fellowship (Post-doctoral)	1	12	$3000		
Scholarships	1 or 2	9	$1600	$1000	none
Tuition Scholarships		9	$1000	$1000	none

* Women only; to be used at institution of Fellow's choice.

Applications must be filed by March 1, 1962.

BUCKNELL UNIVERSITY, LEWISBURG, PENNSYLVANIA
William I. Miller, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2300; Graduates: 65.
Mathematics Majors: Number enrolled in 1962-1963 Undergraduates: 60; Graduates: 6.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	2	9	$1000	none	10 hours/week
	2	9	$1500 - $1800	none	5-6 hours/week teaching

Applications must be filed by March 15, 1962.

UNIVERSITY OF BUFFALO, BUFFALO, NEW YORK

Harriet F. Montague, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8200; Graduates: 1150.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 125; Graduates: 100.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	12	10	$2000 min. + tuition		6 hours/week teaching

Applications must be filed by April 1, 1962.

CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIFORNIA

H. F. Bohnenblust, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 650; Graduates: 650.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 80; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Fellowships	11*				
Tuition Scholarships	19		$1575	$1575	
Teaching Assistantships	17	9	$1900 - $2300**	$1575***	4 contact hours/week****
Research Assistantships	4	12	$2400 - $3000**	$1575***	15 hours/week (term) 30 hours/week (summer)

* Number of fellowships awarded in 1961-1962, includes NDEA, coop NSF, industrial.
** Higher stipends are restricted to more advanced students.
*** Tuition scholarships normally accompany awards of teaching or research assistantships.
**** Duties include preparation, grading, etc. which will require at most an additional 11 hrs/wk.
Note: 30 Graduates are Ph.D. candidates (no master's program).

Applications must be filed by February 15, 1962.

UNIVERSITY OF CALIFORNIA, BERKELEY, CALIFORNIA
Bernard Friedman, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 16,000; Graduates: 8900.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 300; Graduates: 315.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Teaching Assistantships	48	9	$2250	*	6 hours teaching (approx. 14 hours/week)
Fellowships	6	9	$2000 (approx.)	*	none
**Associateships	10	9	$2814	*	Teach 5 unit classes and some departmental duties.
**Research Assistantships	45	12	$2075 - $2290	*	Research***

* Non-resident tuition of $500 usually waived.
** For advanced graduate students.
*** 50% time.

Applications must be filed by February 15, 1962.

UNIVERSITY OF CALIFORNIA, DAVIS, CALIFORNIA
Charles A. Hayes, Jr., Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2653; Graduates: 847.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 85; Graduates: 10.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	4	9	$2250 - $2485	Out-of-State tuition waived	6 hours/week

Applications must be filed by March 15, 1962.

UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIFORNIA

Paul G. Hoel, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 12,464; Graduates: 5528.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 606; Graduates: 231.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	27	9	$2250 - $2485/yr.	*	20 hours/week
Research Assistantships	14	9**	$ 395 - $469/mo.	*	20 hours/week

* Residents: $120; non-residents: $120 plus $500. Exemption of $500 for distinguished scholarship.

** Full time summer optional.

Applications must be filed by March 1, 1962.

UNIVERSITY OF CALIFORNIA, RIVERSIDE, CALIFORNIA

Malcolm F. Smiley, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2000; Graduates: 300.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 180; Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Half-time Teaching Assistantships	7	9	$2250	*	6 hours/week
Research Assistantships	4	12	$3100	*	20 hours/week, 40 hours/week for summer

* Out-of-state tuition of $250 per semester may be waived on basis of outstanding scholarship. Graduate students pay $60 per semester.

Applications must be filed by March 1, 1962.

(see advertisement page 38)

UNIVERSITY OF CALIFORNIA, SANTA BARBARA, UNIVERSITY, CALIFORNIA
Paul J. Kelly, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4800; Graduates: 240.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 220; Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	6	9	$2250	yes	6 hours/week

Applications must be filed by March 15, 1962.

CARLETON UNIVERSITY, OTTAWA, ONTARIO, CANADA
M. S. Macphail, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2000; Graduates: 50.
Mathematics Majors: Number enrolled in 1962-1963 Undergraduates: 70; Graduates: 4.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Fellowships	1	9	$2000	$ 365 - $ 465	4-5 hours/week

Note: This is not specifically a mathematics fellowship but one of a number allotted for competition among all departments.

Applications must be filed by March 1, 1962.

CARNEGIE INSTITUTE OF TECHNOLOGY, PITTSBURGH, PENNSYLVANIA
Alan J. Perlis, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3000; Graduates: 600.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 145; Graduates: 48.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Assistantships	12	9	$2700	$ 600	3 hours/week

Applications must be filed by February 28, 1962.

CASE INSTITUTE OF TECHNOLOGY, CLEVELAND, OHIO
Holbrook M. MacNeille, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1573; Graduates: 830.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 30; Graduates: 43.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	12	9	$2970 - $3330	$ 900	20 hours/week
Graduate Assistantships	6	9	$3735 - $4635	$ 630	30 hours/week
Fellowships	6	10	$1800 and up	none	none

Applications must be filed by March 1, 1962.

THE CATHOLIC UNIVERSITY OF AMERICA, WASHINGTON, D.C.
Raymond W. Moller, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: --- ; Graduates: --- .
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 70; Graduates: 100.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
* Teaching Assistantships	8	9	$1600	none	7 hours/week
Research Assistantships	2	11	$2900	$ 900	none
** Biometry Traineeships	4-6	9	$2200	none	none
** Probability & Statistics Fellowships	4-6	9	$2000	none	none

* Up to $900, summer teaching.
** Family allowance, $400 per dependent; increments in second and third years.

Applications must be filed by March 1, 1962.

CENTRAL MICHIGAN UNIVERSITY, MT. PLEASANT, MICHIGAN

Lester H. Serier, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5200; Graduates: 400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 380; Graduates: 60.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	4	9	$1500 - $1650	$ 228 (Resident) $ 471 (Non-resident)	6 hours/week

Note: B-average in Mathematics; B-average overall.

Applications must be filed by March 10, 1962.

UNIVERSITY OF CHICAGO, CHICAGO, ILLINOIS

I. Kaplansky, Acting Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2200; Graduates: 2400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 180; Graduates: 100.

Graduate Assistantships etc	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	35	12	$1500 - $3500	none	3 hours/week on teaching assistantships. No duties on others.

Applications must be filed by February 15, 1962.

UNIVERSITY OF CINCINNATI, CINCINNATI, OHIO
H. David Lipsich, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 11,000; Graduates: 1500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 70; Graduates: 40.

Graduate Assistatships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Taft teaching Fellowship	1	9	$1700	$ 425 (resident) $ 650 (non-resident)	3 hours/week
* Taft non-teaching Fellowships		9	$1000	$ 425 (resident) $ 650 (non-resident)	none
* Taft non-teaching Fellowships		9	$ 600	$ 425 (resident) $ 650 (non-resident)	none
** Laws Fellowships	very	9	$ 300 - $1800	$ 425 (resident) $ 650 (non-resident)	none
Teaching Assistantships	10	9	$1200 - $1500	$ 425 (resident) $ 650 (non-resident)	3 hours/week

* In competition with 8 Humanities Departments for 7 fellowships, 2 scholarships.
** Stipend and number depend on income from fund.

Applications must be filed by March 1, 1962.

CITY COLLEGE OF NEW YORK, NEW YORK, NEW YORK
G. N. Garrison, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8330* Graduates: 50**
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 300; Graduates: 3.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	2	9	$1500	$ 200	16 hours/week

Note: Master's degree offered at present.
* Full-time, excluding School of Business.
** Full-time, School of Liberal Arts only.

Applications must be filed by April 1, 1962.

CLARK UNIVERSITY, WORCESTER, MASSACHUSETTS
Daniel Gorenstein, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1000; Graduates: 250.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 60; Graduates: 6.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	2	9	$1600	Plus tuition	6 hours/week
	2	9	$ 800	Plus tuition	3 hours/week

Applications must be filed by April 1, 1962.

CLEMSON AGRICULTURAL COLLEGE, CLEMSON, SOUTH CAROLINA
Dawson C. Sheldon, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4400; Graduates: 200.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 60; Graduates: 10.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	10	9	$1700 - $1800		12 hours/week

Applications must be filed by January 15, 1962.

COLORADO STATE UNIVERSITY, FORT COLLINS, COLORADO
M. Leslie Madison, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6000; Graduates: 600.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	12	9	$1800	$ 30/quarter	6-8 hours/week teaching

Note: Tutoring opportunities available.

Applications must be filed by March 15, 1962.

UNIVERSITY OF COLORADO, BOULDER, COLORADO
Burton W. Jones, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 9758; Graduates: 1714.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 208; Graduates: 47.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
* Teaching Assistantships	6	9	$2000	$ 117	8 hours/week
* Teaching Associateships	10	9	$2000	$ 117	6 hours/week
* Research Assistantships	4 or 5	9	$2400	$341 (non-resident) $117 (resident)	none

* May apply for scholarship.

Note: Additional University and research fellowships awarded competitively to graduate students in all fields, carrying stipends up to $2400/year in addition to tuition.

Applications must be filed by March 1, 1962.

UNIVERSITY OF COLORADO, BOULDER, COLORADO
Jack R. Britton, Acting Head, Department of Applied Mathematics

Total University enrollment in 1962-1963: Undergraduates: 10,000; Graduates: 2000.
Applied Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 75; Graduates: 25.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Associateships	6	9	$1600	$ 262	5 hours/week teaching
* Scholarships and Fellowships		9	up to $2400	plus tuition	none

* Not departmental. Apply to Graduate School.

Applications must be filed by March 1, 1962.

COLUMBIA UNIVERSITY, NEW YORK, NEW YORK

S. Eilenberg, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 14,305; Graduates: 19,176.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 111; Graduates: 94.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Assistantships	30	9	$2000	included	10 hours/week
* Higgins Fellowships	3	9	$3500	$1200	
University Scholarships	1	9	$1800	$1200	
University Fellowships	2	9	$2700	$1200	

* For entering students.

Applications for assistantships must be filed by April 1, 1962; for scholarships and fellowships by February 1, 1962.

COLUMBIA UNIVERSITY, NEW YORK, NEW YORK

Herbert E. Robbins, Head, Department of Mathematical Statistics

Total University enrollment in 1962-1963:	Undergraduates: 6800; Graduates: 3500*
Mathematical Statistics Majors: Number enrolled in 1962-1963:	Undergraduates: -- ; Graduates: 45-50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Departmental Assistantships	2	9	$1900	--	10 hours/week
Research Assistantships	6-8	9	$2250 - $3200	$1300	under faculty supervision
Fellowships	1	9	$3000	$1300	none
Scholarships	2	9	$2000	$1300	none

* Not including professional schools.

Applications must be filed by February 1, 1962.

UNIVERSITY OF CONNECTICUT, STORRS, CONNECTICUT
John C. Montgomery, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 9800; Graduates: 1400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 175; Graduates: 15.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	4	9	$2040	$ 150	6 hours/week

Applications must be filed by March 1, 1962.

CORNELL UNIVERSITY, ITHACA, NEW YORK
J. Barkley Rosser, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8603; Graduates: 2555.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 73; Graduates: 49.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	19	9	$1900	none	4 class hours/week *
Computing Assistantships	3	9-12	$3000 - $4100	$ 994	15-20 hours/week **
*** Research Assistantships	6	9-12	$3000 - $4100	$ 994	variable
Fellowships	2-4	9	$1500 - $2500	none	none

* No duties in summer.
** Up to 40 hours/week in summer.
*** For advanced students only.

Applications must be filed by February 10, 1962.

DARTMOUTH COLLEGE, HANOVER, NEW HAMPSHIRE
John G. Kemeny, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3000; Graduates: 250.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 50; Graduates: 10.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	6	9	$1800 - $2000	exempt	4 hours/week

Note: Stipend is tax exempt.

Applications must be filed by March 1, 1962.

UNIVERSITY OF DELAWARE, NEWARK, DELAWARE
G. Cuthbert Webber, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3400; Graduates: 1000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 50; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	4-6	9	$2000	none	6 hours/week teaching or equivalent
Statistics Fellowships	3-5 *	9	$2000	none	

* May be available.

Applications must be filed by March 1, 1962.

De PAUW UNIVERSITY, GREENCASTLE, INDIANA
Clinton B. Gass, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2250; Graduates: 30.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates 100; Graduates: 2.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	2	9	up to $1700	free	12 hours/week, no teaching

Applications must be filed by March 1, 1962.

UNIVERSITY OF DETROIT, DETROIT, MICHIGAN
Lyle E. Mehlenbacher, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 9800; Graduates: 1300.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 210; Graduates: 115.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Assistantships	5	9	$1000	$20 - $25 per semester hour	10 hours/week
Teaching Fellowships	18	9	$1800	free tuition and fees	6 hours/week teaching

Applications must be filed by March 1, 1962.

DUKE UNIVERSITY, DURHAM, NORTH CAROLINA
J. J. Gergen, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3678; Graduates: 890.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 100; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
* Fellowships	2	9	$3000	$ 975	none
* Fellowships	3	12	$3250	$ 975	none
** Teaching Assistantships	6	9	$2400	$ 585	6 semester hours/week
** Research Assistantships	3	12	$3625	$ 585	***
** Research Assistantships	1	12	$3250	$ 585	***
** Computing Laboratory Assistantships	3	12	$3250	$ 585	***

* Full-time students.
** 3/5 time students, academic year.
*** 20 hours/week, academic year; 40 hours/week, 2 summer months.

Applications must be filed by February 15, 1962.

DUQUESNE UNIVERSITY, PITTSBURGH, PENNSYLVANIA
Charles F. Sebesta, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4600; Graduates: 1200.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 60; Graduates: 8.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	4	9	$1500		6 hours/week

Applications must be filed by ------.

EAST CAROLINA COLLEGE, GREENVILLE, NORTH CAROLINA
David R. Davis, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 6000; Graduates: 460.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 250; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	2	9	$1000	$100/quarter	10 hours/week

Applications must be filed by April 1, 1962.

EAST TENNESSEE STATE COLLEGE, JOHNSON CITY, TENNESSEE
Lester C. Hartsell, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 4900; Graduates: 300.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 80; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	6	9	$ 250	$6/qtr. hour in-state; $12/qtr. hour out-of-state	8 hours/week

Applications must be filed by September 1, 1962.

EAST TEXAS STATE TEACHERS COLLEGE, COMMERCE, TEXAS
C. B. Wright, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 3010; Graduates: 533.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 97; Graduates: 22.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	2	9	$1350	tuition payable	6 hours/week

Applications must be filed by March 1, 1962.

EASTERN ILLINOIS UNIVERSITY, CHARLESTON, ILLINOIS

Lawrence A. Ringenberg, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3400; Graduates: 500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 200; Graduates: 25.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	2	9	$ 120/mo.	$ 150/year	10 hours/week paper grading and tutoring

Applications must be filed by March 1, 1962.

EASTERN NEW MEXICO UNIVERSITY, PORTALES, NEW MEXICO

Carroll K. Wilson, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2000; Graduates: 150.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: ---; Graduates: 6.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	3	9	$1300	$ 100	10 hours/week

Applications must be filed by February 15, 1962.

EMORY UNIVERSITY, ATLANTA, GEORGIA

Trevor Evans, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2000; Graduates: 500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 50; Graduates: 8.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
* Fellowships	2	9	$2500	$ 900	none
*** Graduate Assistantships	2	9	$1900	$ 900	15 hours/week**
*** Graduate Assistantships	4	9	$ 900	$ 900	7½ hours/week

* M.A. Fellowships awarded on University-wide basis.
** Duties consist of teaching one class.
*** For M.A. degree only.

Applications must be filed by February 15, 1962.

FAIRLEIGH DICKINSON UNIVERSITY, TEANECK, NEW JERSEY

Maria Castellani, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 13,000; Graduates: 1000.

Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 70; Graduates: 45.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	2		$1000 *	$500 of free tuition	6 hours/week

* $5 for each extra hour of teaching.

Applications must be filed by March 1, 1962.

FLORIDA STATE UNIVERSITY, TALLAHASSEE, FLORIDA

Thomas L. Wade, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8300; Graduates: 1400.

Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Teaching Grad. Assistantships	6	9	$1008	$ 226	10 hours/week
Teaching Grad. Assistantships	15	9	$2016	$ 226	20 hours/week
Research Grad. Assistantships	5	9	$2016	$ 226	0-8 hours/week
Research Grad. Assistantships	5	12	$3000	$ 226	0-8 hours/week
Graduate Fellowships	4	12	$2000	none	none
Graduate Fellowships	2	9	$1500 - $2000	$ 226	none

Applications must be filed by March 1, 1962.

UNIVERSITY OF FLORIDA, GAINESVILLE, FLORIDA
John E. Maxfield, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 11,000; Graduates: 2500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 210; Graduates: 55.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	15	9	$1800	$113/semester	4-5 hours/week
	8	9	$2400	$113/semester	6-7 hours/week
	1-3	9	$1800	$113/semester	none

Applications must be filed by February 15, 1962.

FORDHAM UNIVERSITY, NEW YORK, NEW YORK
Reverend Charles J. Lewis, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5400; Graduates: 350.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 70; Graduates: 45.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Teaching Assistantships	2	9	$1500	none	12 hours/week
Graduate Non-teaching Assistantships	2	9	$1300	none	12 hours/week

Applications must be filed by March 1, 1962.

FORT HAYS KANSAS STATE COLLEGE, HAYS, KANSAS
W. Toalson, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3013; Graduates: 253.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 60; Graduates: 0.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Research Assistantship	1	9	$1800	$ 154	about 20 hours/week
Graduate Assistantship	1	9	$1800	$ 154	20 hours/week
Graduate Fellowships	2	9	$ 500	$ 154	12 hours/week

Applications must be filed by February 1, 1962.

FRESNO STATE COLLEGE, FRESNO, CALIFORNIA
A. E. Labarre, Jr., Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5000; Graduates: 1200.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 70; Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	4	9	$ 729	$24 (in-state)* $102 (out-of-state)	3 hours/week
	2	9	$1458	$24 (in-state)** $76.50(out-of-state)	6 hours/week

* Tuition payable assumes 12 hours course work.
** Tuition payable assumes 9 hours course work.

Applications must be filed by ----------.

GEORGE PEPPERDINE COLLEGE, LOS ANGELES, CALIFORNIA
Ladis D. Kovach, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1300; Graduates: 150.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 60; Graduates: 10.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	1	9	$1400	$27/semester hour	7 hours/week

Applications must be filed by May 1, 1962.

GEORGE WASHINGTON UNIVERSITY, WASHINGTON, D.C.
David Nelson, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: --- ; Graduates: --- .
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: --- ; Graduates: --- .

Available assistantships and fellowships undetermined at present.

GEORGETOWN UNIVERSITY, WASHINGTON, D.C.
Malcolm W. Oliphant, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5000; Graduates: 700.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 20; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	2	9	$1600	included	none *
	2	9	$1800	included	3-4 hours/week **
	2	9	$1800	$ 900	none ***

* First year students.
** Second year students.
*** Research assistants.

Applications must be filed by February 15, 1962.

GEORGIA INSTITUTE OF TECHNOLOGY, ATLANTA, GEORGIA
Marvin B. Sledd, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5400; Graduates: 600.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 125; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	2	9	$3800 *	$ 279	10 hours/week
Graduate Assistantships	8	9	$3600 *	$ 279	10 hours/week
Graduate Assistantships	12	9	$1800 *	$ 309	5 hours/week
** Part-time Instructorships	4	9	$4000	$ 210	10 hours/week

* Supplementary stipend up to $240 available for well-qualified assistants.
** Master's degree required.

Applications must be filed by March 31, 1962.

UNIVERSITY OF GEORGIA, ATHENS, GEORGIA
M. K. Fort, Jr., Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8800; Graduates: 1000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 75; Graduates: 35.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Teaching Assistantships	15	9	$1600 - $1800	$ 200	5 hours/week
Graduate Assistantships	4	9	$1600	$ 200	6 hours/week
Advanced Graduate Fellowships	3	9	$2000	$ 200	none
Research Assistantships	5	9	$2000 - $2400	$ 200	third-time

Note: 3 NDEA Fellowships have been applied for. Summer support is also available.

Applications must be filed by February 15, 1962.

HARVARD UNIVERSITY, CAMBRIDGE, MASSACHUSETTS
Richard D. Brauer, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4750; Graduates: 2000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 275; Graduates: 100.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
* Teaching Assistantships	18	9	$1350	$ 200	3 hours/week
** Teaching Assistantships	18	9	$1050	$1520	3 hours/week
* Research Assistantships	6	9	$2430	$ 200	half-time
* Research Assistantships	4	12	$3200	$ 200	half-time, 9 months; full-time, 2 months
Tuition Scholarships	15	9	varies		

* Advanced graduate students who have completed their residence requirements.
** Second year graduate students who have not completed their residence requirements.

Applications must be filed by February 1, 1962.

UNIVERSITY OF HAWAII, HONOLULU, HAWAII
Christopher Gregory, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 9000; Graduates: 125.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 70; Graduates: 12.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	5	12	$2040	exempt	20 hours/week

Applications must be filed as soon as possible.

UNIVERSITY OF HOUSTON, HOUSTON, TEXAS
Martin Wright, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: --- ; Graduates: --- .
Mathematics Majors: Number enrolledin 1962-1963: Undergraduates: --- ; Graduates: --- .

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Junior Assistantships	8	9	$400/9 mo.		40 hours/month
Teaching Fellowships	4-6	9	$1500/ semester yr.		3 hour credits

Applications must be filed by August 15, 1962.

UNIVERSITY OF IDAHO, MOSCOW, IDAHO
Hans Sagan, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4200; Graduates: 450.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 50; Graduates: 24.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Assistantships	7	9	$1650	tuition and fees remitted	7 hours/week Lab. 6 hours/week grading
NDA Fellowships	2	9	$2000	tuition and fees remitted	none
* University Fellowships	2	9	$2000	tuition and fees remitted	half-time teaching

* M.S. or M.A. degree in mathematics required.

Applications must be filed by ----------.

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, ILLINOIS
Haim Reingold, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5700; Graduates: 1300.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 150.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	25	9	up to $2100	none	6 hours/week teaching

No deadline for filing of applications.

ILLINOIS STATE NORMAL UNIVERSITY, NORMAL, ILLINOIS
Clyde T. McCormick, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5200; Graduates: 500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 475; Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	2	9	$1080	$97.50	12 hours/week

Applications must be filed by March 1, 1962.

UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS
Mahlon M. Day, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 19,400; Graduates: 4950.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 170; Graduates: 260.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Half-time Assistantships	95-100	9	$2000	none	6-8 class hours/week
University Fellowships	10-15	9	$1500 - $2000	none	none
NSF Cooperative Fellowships	5-10	9 and 12	$1800 - $2400	none	none
Post-doctoral Research Associateships	1 or 2	9	$5800	none	0-3 class hours/week

Applications must be filed by February 15, 1962.

INDIANA UNIVERSITY, BLOOMINGTON, INDIANA
J. W. T. Youngs, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 110; Graduates: 80.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Teaching Associateships	30	9	$1800 - $2400	$7/credit hour	6 hours/week
Research Associateships	20	9	$1800 - $2200	$7/credit hour	6 hours/week
Scholarships	6	9	$1200 - $1800	$7/credit hour*	none

* If honoraria are $1000 or more; approximately half of the fees will be remitted if awards are for lesser amounts.

Applications must be filed by March 1, 1962.

THE INSTITUTE FOR ADVANCED STUDY, PRINCETON, NEW JERSEY
Caroline D. Underwood, Secretary, School of Mathematics

The School of Mathematics of the Institute for Advanced Study, Princeton, New Jersey, will grant a limited number of memberships, in some cases with financial support, for research in mathematics at the Institute during the academic year 1962-1963. Candidates must have given evidence of ability in research comparable at least with that expected for the Ph. D. degree. Application blanks may be obtained from the Secretary of the School of Mathematics, and should be returned by January 15 (whether or not funds are expected from some other source).

STATE COLLEGE OF IOWA, CEDAR FALLS, IOWA
H. C. Trimble, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4000; Graduates: 350.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 250; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	1	9	$1350	Activity fee $23/semester*	10 hours/week
	1	9	$1500	Activity fee $23/semester*	10 hours/week **

* Remission of fees for the following summer session.
** Work may be concentrated into a shorter period of time, allowing full-time study at other times.

Applications must be filed by March 1, 1962.

IOWA STATE UNIVERSITY, AMES, IOWA
B. Vinograde, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 10,000; Graduates: 1500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 280; Graduates: 70.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Teaching Assistantships	10	9	$1350	$36/quarter	1 class/quarter
	15	9	$1665	$36/quarter	1 1/3 class/quarter
	15	9	$2070	$36/quarter	1 2/3 class/quarter

Applications must be filed by March 1, 1962.

IOWA STATE UNIVERSITY, AMES, IOWA
T. A. Bancroft, Head, Department of Statistics

Total University enrollment in 1962-1963: Undergraduates: 9125; Graduates: 1475.
Statistics Majors: Number enrolled in 1962-1963: Undergraduates: 30; Graduates: 56.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	7	9	$200 - $225/mo.	no	22 hours/week
Graduate Assistantships	23	12	$200 - $225/mo.	no	22 hours/week
* National Inst. Health Trainees	6	12	$200 - $225/mo.**	yes	
Fellowships	1	9	$175 - $200/mo.**	yes	

* Travel grants for summer training.
** Stipend tax-free.

Applications must be filed by March 1, 1962.

STATE UNIVERSITY OF IOWA, IOWA CITY, IOWA

William T. Reid, Head, Department of Mathematics

Total University enrollment in 1962-1963*: Undergraduates: 8400; Graduates: 2400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 275; Graduates: 100.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Half-time teaching Assistantships	30	9	$2000 - $2400	$ 280	6 hours/week
NSF Cooperative Fellowships	2-4	12	$2400		
**NDEA Graduate Fellowships	7	9	$2200 - $2400		
*** Fellowships for Actuarial Students	2	9	$1800 - $2200	$ 280	
*** Scholarships for Actuarial Students	2	9	$ 500	$ 280	
**** Graduate Tuition Scholarships	10-14	9	$ 280		

* Figures do not include professional schools of Law, Dentistry, and Medicine.

** Four of indicated 3-year NDEA Fellowships were awarded to students beginning graduate study in 1960-61, and three to students beginning study in 1961-62. Application has been made for additional fellowships for 1962-63. Indicated stipend does not include dependency allowance.

*** These awards are supported by contributions from various insurance companies.

**** A teaching assistant may also be awarded a tuition scholarship.

Applications must be filed by March 1, 1962.

JOHN CARROLL UNIVERSITY, CLEVELAND, OHIO

Reverend H. F. Birkenhauer, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3500; Graduates: 600.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 80; Graduates: 40.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	5	9	$1800	none	7½ hours/week

Note: Appointments are for one year and renewable.

Applications must be filed by February 15, 1962.

KANSAS STATE COLLEGE, PITTSBURG, KANSAS
R. G. Smith, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3000; Graduates: 600.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 200; Graduates: 25.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	5	9	$1440	$142 (resident) $222 (non-resident)	6 hours/week

Applications must be filed by March 1, 1962.

KANSAS STATE TEACHERS COLLEGE, EMPORIA, KANSAS
Marion P. Emerson, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4770; Graduates: 650.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 200; Graduates: 12.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
* Fellowships	10	9	$ 500	$100 (resident) $180 (non-resident)	10 hours/week
* Assistantships	20	9	$ 900 maximum	$100 (resident) $180 (non-resident)	15-20 hours/week

*** Overall college allotment. There will be at least one of each in the mathematics department.**

Applications must be filed by February 16, 1962.

KANSAS STATE UNIVERSITY, MANHATTAN, KANSAS
R. G. Sanger, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 7500; Graduates: 500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 125; Graduates: 25.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	8	9	$1890	$160/year	18 hours/week

Applications must be filed by March 1, 1962.

UNIVERSITY OF KANSAS, LAWRENCE, KANSAS
G. Baley Price, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8200; Graduates: 2200*
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 105; Graduates: 100.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Assistant Instructorships	**50**	**9**	**$2000 - $2200**	**about $160**	**7½ hours/week**
Research Assistantships	**2**	**9**	**$1900 - $2000**	**about $190**	**20 hours/week**
University Scholarships and Fellowships	**4**	**9**	**$ 600 - $1000**	**none**	**none**

*** Plus professional students.**

Applications must be filed by February 20, 1962.

KENT STATE UNIVERSITY, KENT, OHIO
L. Earle Bush, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8900; Graduates: 1470.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 250; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	3	**9**	**$1600 - $2000**	**none**	**5 hours/week teaching**
	4	**9**	**$1875 - $2250**	**none**	**5-6 hours/week teaching**

Applications must be filed by March 1, 1962.

UNIVERSITY OF KENTUCKY, LEXINGTON, KENTUCKY
J. C. Eaves, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 10,000; Graduates: 2000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 250; Graduates: 40.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	10	9	$1500	Out-of-State	6-10 hours/week classroom teaching and assisting.
	10	12	$1800 - $2100	Out-of-State	6-10 hours/week classroom teaching and assisting.

Applications must be filed by March 1, 1962.

LEHIGH UNIVERSITY, BETHLEHEM, PENNSYLVANIA
Everett Pitcher, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2700; Graduates: 1100.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 60; Graduates: 35.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	9	9	$2000	No tuition or fees	6 hours/week teaching at most
	9	9	$2250	No tuition or fees	6 hours/week teaching at most

Applications must be filed by ----------.

LENOIR RHYNE COLLEGE, HICKORY, NORTH CAROLINA
Thomas H. Blackburn, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 970; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 30; Graduates: ---.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Undergraduate Assistantships	4	9	Hourly rate	$ 460	[illegible]-12 hours/week

Applications must be filed by June 1, 1962.

LONG BEACH STATE COLLEGE, LONG BEACH, CALIFORNIA
Alton H. Smith, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 9000; Graduates: 3000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 280; Graduates: 40.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Teaching Assistantships	14	9	approx. $162 *	approx. $45.50/ semester **	6 hours/week

* Per teaching unit load. Average 4-6 teaching unit load assignment.
** Non-resident additional fee of $8.50 per unit, maximum of $127.50 per semester.

Applications must be filed by March, 1962.

LOS ANGELES STATE COLLEGE, LOS ANGELES, CALIFORNIA
Charles L. Clark, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 15,800; Graduates: 1800.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 270; Graduates: 70.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	5	9	$1944 - $2592	$ 47 per semester*	6-8 hours/week teaching

* Non-resident tuition, additional $8.50 per unit.

Applications must be filed by April 15, 1962.

LOUISIANA POLYTECHNIC INSTITUTE, RUSTON, LOUISIANA
W. B. Temple, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3731; Graduates: 216.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 109; Graduates: 12.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	6	9	$1250	included	6 hours/week

Applications must be filed by March 15, 1962.

LOUISIANA STATE UNIVERSITY, BATON ROUGE, LOUISIANA
L. I. Wade, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 9617; Graduates: 1877.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 50; Graduates: 100.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	36	9	$2100 - $2400	waived	5-6 hours/week
N. S. F. Cooperatives	2	12	$2400 - $3400	waived	0-3 hours/week
Research Assistantships	3	9	$2400	waived	To be arranged
N.D.E.A. Fellowships	8-16	9	$2000 - $2400 *	waived	none
NSF Academic Year Institute for High School Teachers	40	9-12	$3000 **	waived	none
	5	9-12	$1350 ***	waived	none

* Plus dependency allowances.
** $450 each dependent; $120 travel; $75 book allowance.
*** $375 each dependent; $120 travel; $75 book allowance.

Applications must be filed by March 1, 1962.

LOYOLA UNIVERSITY, CHICAGO, ILLINOIS
Reverend Charles Rust, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 6400; Graduates: 1700.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 300; Graduates: 40.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	4	9	Total of $1200	remitted	6 hours/week

Applications must be filed by February 1, 1962.

McGILL UNIVERSITY, MONTREAL, QUEBEC, CANADA

E. Rosenthall, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 35.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
* Graduate Scholarships	8	9	$ 500	$ 425	none
* Graduate Fellowships	20	9	$1200	none	none
Demonstrators	4	9	$ 800	$ 425	3 hours/week
Research Assistantships	Available at comparable rates in selected fields.				

* Not confined to mathematics students.

Applications must be filed by February 1, 1962.

McMASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA

B. Banaschewski, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1760; Graduates: 225.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 45; Graduates: 15.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
* Term Scholarships	12	9	$ 900	$ 325	none
Teaching Assistantships	6	9	$ 800	$ 325	2-3 lecture hours/week
Laboratory Assistantships	7	9	$ 300	$ 325	2 hours/week
Summer Scholarships	**	4	$ 800	none	none

* Usually a student will hold one of the other two in addition to the term scholarship.
** Number depends on research grants received by members of the department.

Applications must be filed by March 1, 1962.

UNIVERSITY OF MAINE, ORONO, MAINE
S. H. Kimball, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4300; Graduates: 100.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 80; Graduates: 10.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	8	9	$1600		8 hours/week

Applications must be filed by February 1, 1962.

UNIVERSITY OF MANITOBA, FORT GARRY, MANITOBA, CANADA
J. W. Lawson, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 7000; Graduates: 500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 110; Graduates: 8.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	2		$1900		3 hours/week
Graduate Assistantships	10*		$1900		

* Awarded by the University, tenable in any department, and given where the best quality of applicants applies.

Applications must be filed by March, 1962.

MANKATO STATE COLLEGE, MANKATO, MINNESOTA
Warren J. Thomsen, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5000; Graduates: 400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 300; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	2	9	$1000	$ 5/quarter hour	8 hours/week

Applications must be filed by March, 1962.

MARQUETTE UNIVERSITY, MILWAUKEE, WISCONSIN
John E. Kelley, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5856; Graduates: 864.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 135; Graduates: 25.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	3	10	$1800		20 hours/week

Applications must be filed by March 1, 1962.

UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND
Leon W. Cohen, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 15,000; Graduates: 2000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 200.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Assistantships	32	10	$2000	Fees remitted	½ time
Research Assistantships	3	12	$3600	Fees not remitted	½ time
Research Assistantships	7	10	$2300	Fees not remitted	½ time

Applications must be filed by March 15, 1962.

UNIVERSITY OF MARYLAND, COLLEGE PARK, MARYLAND
M. H. Martin, Director, Institute for Fluid Dynamics and Applied Mathematics

Total University enrollment in 1962-1963: Undergraduates: 15,000; Graduates: 2000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 200.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	6 *	10	$2300	$ 240	20 hours/week

* Applied Mathematics.

Applications must be filed by April 1, 1962.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MASSACHUSETTS
W. T. Martin, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3560; Graduates: 2850.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 350; Graduates: 105.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Fellowships	1-4	9	$1800	Scholarship	
Research Assistantships	20-25	9	$3155	$1150	16 hours/week
* Teaching Assistantships	30	9	$2120	Scholarship	6 hours/week teaching or equivalent

* Eligible for reappointment and promotion.

Applications must be filed by February 5, 1962.

UNIVERSITY OF MASSACHUSETTS, AMHERST, MASSACHUSETTS
Allen E. Andersen, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: ---; Graduates: ---.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	15	9	$1500 - $2200	included	6 hours/week teaching*

* Plus the time needed for preparation of lectures and the correcting of assignments.

Applications must be filed by March 1, 1962.

MIAMI UNIVERSITY, OXFORD, OHIO
Charles E. Capel, Acting Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 7200; Graduates: 450.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 15.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Teaching Assistantships	13	9	$2000	waived	5-6 hours/week
Tuition Scholarships	varies	9 or 12		waived	none

Applications must be filed by March 1, 1962.

UNIVERSITY OF MIAMI, CORAL GABLES, FLORIDA
J. H. Curtiss, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 12,000; Graduates: 300.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 35.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
* Teaching Assistantships	15	9	$2000	**	6 hours/week
Tuition Scholarships	no fixed number	9 or 12			
Research Assistantships	3-5	12	up to $2500	**	15-20 hours/week

* Summer teaching usually available for continuing graduate assistants at $150 per credit.
** Tuition scholarships available.

Applications for assistantships and fellowships must be filed by March 1, 1962; other applications at least one month prior to registration.

MICHIGAN COLLEGE OF MINING & TECHNOLOGY, HOUGHTON, MICHIGAN
J. M. Harrington, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2750; Graduates: 75.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 85; Graduates: 3.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	5	9	$2000	remitted*	½ time

* Activity fee required.

Applications must be filed by June 1, 1962.

MICHIGAN STATE UNIVERSITY, EAST LANSING, MICHIGAN
C. P. Wells, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 19,000; Graduates: 4900.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 250; Graduates: 110.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	20*	9	$2000	***	6 hours/week average
	20**	9	$2200	***	

* Candidates for M.S.
** Candidates for Ph.D.
*** $61 for 7-9 credits; $81 for 10-11 credits.

Applications must be filed by March 15, 1962.

MICHIGAN STATE UNIVERSITY, EAST LANSING, MICHIGAN
Leo Katz, Head, Department of Statistics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Statistics Majors: Number enrolled in 1962-1963: Undergraduates: 15; Graduates: 45.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend *	Service required (hrs/wk)
Teaching Assistantships	3	9	$2200	$76/quarter	6 hours/week
Departmental Assistantships	3	9	$2000	$76/quarter	10 hours/week
Research Assistantships	12-15	9 or 12	$225 - $300/mo.	$93/quarter	variable

* Out-of-State fee waived.

Applications must be filed by March 1, 1962.

UNIVERSITY OF MICHIGAN, ANN ARBOR, MICHIGAN

G. E. H[illegible]y, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 15,615; Graduates: 9860.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 200; Graduates: 258.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Teaching Fellowships	74	9	$2200	$180-$230	6 hours/week
* Fellowships	80	9	$1600 - $1900	$250-$600	none
* Tuition Scholarships	20	9	$250-$600		none

* Not confined to mathematics students.

Applications must be filed by February, 1962.

UNIVERSITY OF MINNESOTA, MINNEAPOLIS, MINNESOTA

Robert H. Cameron, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 26,000; Graduates: 4000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 100; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Teaching Assistantships	18	9	$1586	$91/quarter	5 hours/week teaching
	13	9	$2115	$91/quarter	6-7 hours/week average
Research Assistantships	8	9	$2115	$91/quarter	Research on a project
Summer research Assistantships	8	3	$ 705	$91/quarter	Research on a project
Part-time Instructorships	4	9	$2331 - $2500	$91/quarter	6-7 hours/week average

Applications must be filed by March 1, 1962.

UNIVERSITY OF MINNESOTA, INSTITUTE OF TECHNOLOGY, MINNEAPOLIS, MINNESOTA
S. E. Warschawski, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: 4539.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 100; Graduates: 100.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	36	9	$2115	$91/quarter	6-7 hours/week teaching and grading papers(½time)
Teaching Assistantships	5	9	$2820	$91/quarter	8 hours/week teaching (2/3 time)
Research Assistantships	10	9	$2115	$91/quarter	½ time
Research Assistantships in Numerical Analysis	6	9	$2115	$91/quarter	½ time
* NDEA Fellowships	8	9	$2000 - $2400	$91/quarter	
Part-time Instructorships	5	9	$2231 - $3108	$91/quarter	6-8 hours/week teaching (1/2-2/3 time)

* These 3-year fellowships awarded to students beginning graduate study in 1960-1961 and 1961-1962. Application has been made for additional fellowships under this program, to be available for 1962-1963.

Applications must be filed by March 15, 1962.

MISSISSIPPI STATE UNIVERSITY, STATE COLLEGE, MISSISSIPPI
Arthur Ollivier, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4800; Graduates: 300.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 90; Graduates: 12.

Available assistantships and fellowships undetermined at present.

UNIVERSITY OF MISSISSIPPI, UNIVERSITY, MISSISSIPPI
T. A. Bickerstaff, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1250; Graduates: 350.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 123; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 -1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	12	9	$1000	waived	Teach 3 hour course

Applications must be filed by March 1, 1962.

UNIVERSITY OF MISSOURI, COLUMBIA, MISSOURI

Paul B. Burcham, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 11,000; Graduates: 1500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 60.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	50	9	$1650 - $2560	Fees about $125/semester	7-10 hours/week

Applications must be filed by ----------.

MONTANA STATE COLLEGE, BOZEMAN, MONTANA

J. Eldon Whitesitt, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4141; Graduates: 129.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 101; Graduates: 27.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	11	9	$2000	$53/quarter	8-10 hours/week

Applications must be filed by February 1, 1962.

UNIVERSITÉ de MONTRÉAL, MONTREAL, QUEBEC, CANADA

Maurice L'Abbé, Director, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 36; Graduates: 13.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	8	9	$1400	$ 300	6 hours/week
Graduate Fellowships	3	9	$2000	$ 300	none

Applications must be filed by February 1, 1962.

UNIVERSITY OF NEBRASKA, LINCOLN, NEBRASKA

W. G. Leavitt, Head, Department of Mathematics

Total University enrollment in 1962-1963:	**Undergraduates: 9200; Graduates: 1300.**
Mathematics Majors: Number enrolled in 1962-1963:	**Undergraduates: 100; Graduates: 55.**

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	30	9	$1800 - $2000	*	6 classroom hours/week
Research Assistantships	3-6	9-12	$2000 - $2300**	*	1/3 time
*** NDEA Fellowships	3-5	9	$2000	*	

*	Administrative fee, maximum $25/semester.

**	This salary is for 9 months. Research assistants continuing through the summer are paid an additional stipend, depending on the amount of service (up to $1000 for a full-time assistant).

***	3 NDEA fellows started in 1961-1962. Additional funds to start 3 to 5 fellows in September 1962 have been requested.

Applications must be filed by February 15, 1962.

UNIVERSITY OF NEVADA, RENO, NEVADA

E. M. Beesley, Head, Department of Mathematics

Total University enrollment in 1962-1963:	**Undergraduates: 3000; Graduates: 271.**
Mathematics Majors: Number enrolled in 1962-1963:	**Undergraduates: 10-15; Graduates: 3-8.**

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	4	9	$2000	none	up to 20 hours/week*
**Graduate Research grants	2	9	$ 500 - $2000	none	up to 20 hours/week*

*	Teaching assignments limited to 6 credits in Freshman level work.

**	Similar grants and assistantships may be granted by the Desert Research Institute. Two graduate students currently hold such grants.

Applications must be filed by August, 1962 (fall semester) and January, 1963 (spring semester).

UNIVERSITY OF NEW HAMPSHIRE, DURHAM, NEW HAMPSHIRE
M. Evans Munroe, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3600; Graduates: 450.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 11[illegible] Graduates: 12.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	8	9	$2000	none	6 hours/week
Tuition Scholarships	3	9	tuition only	none	none

Applications must be filed by March 1, 1962.

NEW MEXICO INSTITUTE OF MINING & TECHNOLOGY, SOCORRO, NEW MEXICO
Rafael Sanchez-Diaz, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 380; Graduates: 35.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 12; Graduates: 6.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	4	9*	$1800**	$ 288	20 hours/week

* Summer employment usually available after the first year.
** Students with outstanding records begin at $2000.

Applications must be filed by March 1, 1962.

UNIVERSITY OF NEW MEXICO, ALBUQUERQUE, NEW MEXICO
Morris S. Hendrickson, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6900; Graduates: 1700.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 70; Graduates: 75.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	5	9	$1900	$ 246*	5 hours/week teaching
Research Assistantships	5	9 12	$2000 $2900	$ 246*	no specific duties

* Waiver of out-of-state fee.

Applications must be filed by February 1, 1962.

NEW MEXICO STATE UNIVERSITY, UNIVERSITY PARK, NEW MEXICO
Ralph B. Crouch, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3600; Graduates: 600.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 80.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
* Teaching Assistantships	10	9	$2450 - $2650	In-State	7 hours/week
** Teaching Assistantships	10	9	$2050 - $2250	In-State	7 hours/week
Research Assistantships	5	9	$2450 - $2650	In-State	none

* With Master's.
** With Bachelor's.

Applications must be filed by April 1, 1962.

(see advertisement below)

NEW MEXICO STATE UNIVERSITY
Graduate Study in Mathematics

Degrees Offered: M.S. and Ph.D.
Annual Course offerings in:
- Modern Algebra
- Theory of Functions
- Set Theory
- Topology
- Matrix Algebra
- Real Variables
- Complex Variables
- Linear Algebra
- Statistics
- Functional Analysis

Alternate Year Course Offerings from:
- Number Theory
- Numerical Analysis
- Differential Equations
- Geometric Algebra
- Groups
- Differential Geometry
- Applied Mathematics
- Algebraic Topology
- Homotopy Theory
- Rings and Fields
- Homological Algebra

Assistantships: Teaching and Research
Stipends:
$2050 – $2250 9 months (without master's)
$2450 – $2650 9 months (with master's)
Fellowships: 3 University Fellowships
Stipends:
$3000 9 months

Apply by April 1, 1962, to:
Head, Department of Mathematics
New Mexico State University
University Park, New Mexico

INSTITUTE OF MATHEMATICAL SCIENCES, NEW YORK UNIVERSITY, NEW YORK, NEW YORK

Lipman Bers, Head, Graduate Department of Mathematics
J. J. Stoker, Head, All University Mathematics Department

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: ---; Graduates: 580.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend: 9 or 12 Mo.	Stipend: Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
* Research Assistantships and Fellowships	65				
Assistantships		12	$2200 - $3500**	none	individual ***
Fellowships		9	$1020 - $3500**	$1020	none***

* Available only to full-time students intending to study for a Ph.D. degree.
** The opportunity to teach a course, for additional remuneration, is occasionally given to fellows and assistants.
*** In practice there is not much distinction between assistants and fellows. Assistants' assignments are closely correlated with their mathematical education, and fellows often assume responsibilities which will benefit their studies.

Applications must be filed by March 1, 1962.

NEWARK COLLEGE OF ENGINEERING, NEWARK, NEW JERSEY

Henry Zatzkis, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: ---; Graduates: ---.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend: 9 or 12 Mo.	Stipend: Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Assistantships	1 or 2	10	$4500		12-15 hours/week
Instructorships	1	10	$5499		

Applications must be filed by March 1, 1962.

UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL, NORTH CAROLINA
William Marvin Whyburn, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates:6612; Graduates: 1695.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 101; Graduates: 70.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Assistantships	30	9	$2300	$ 175	6 hours/week
Teaching Fellowships	2	9	$2000	$ 175	3 hours/week

Applications must be filed by February 15, 1962.

UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL, NORTH CAROLINA
George E. Nicholson, Jr., Head, Department of Statistics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Statistics Majors: Number enrolled in 1962-1963: Undergraduates: ---; Graduates: 32.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Research Assistantships	16	9-12	$2000 - $3600	$ 175	Research and minor duties
Fellowships	1	9	$2000	$ 175	none
National Defense Fellowships	4	12	$2000 - $2400	$ 360	none
* Research Associateships	4	9-12	$5000 - $8000	none	Research
** Teaching Assistantships	2	9	$ 900	$ 175	Laboratory assistant for one course
*** Fellowships	2	12	$3600	none	Laboratory assistant or consulting

* Post doctoral.
** Usually supplements Research Assistantship.
*** For minors in public health.
Note: Dependency allowance for National Defense Fellowships.

Applications must be filed by February 15, 1962.

(see advertisement page 87)

NORTH CAROLINA STATE COLLEGE, RALEIGH, NORTH CAROLINA
John W. Cell, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6300; Graduates: 850.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 250; Graduates; 47.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend*	Service required (hrs/wk)
Teaching Assistantships	4	9	$1600**	*	13 hours/week
Teaching Assistantships	18	9	$2400**	*	20 hours/week
Teaching Assistantships	8	9	$3200**	*	26 hours/week
Research Assistantships	7	9	$2400***	*	20 hours/week
Research Assistantships	4	9	$3200***	*	26 hours/week

* $9/credit hour per semester through 9 hours; $87.50 per semester for 10 or more hours.
** Additional income possible by summer school teaching.
*** Additional income possible by summer work.

Applications must be filed by February 1, 1962.

NORTH CENTRAL COLLEGE, NAPERVILLE, ILLINOIS
Anice Seybold, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 925; Graduates: 0.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 34; Graduates: 0.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Undergraduate Internship	1	9	$ 650	$ 950	4 hours/week

Note: Intern does practice teaching and holds office hours, etc.

Applications must be filed by March 1, 1962.

NORTH DAKOTA STATE UNIVERSITY, FARGO, NORTH DAKOTA
A. Glenn Hill, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 3500; Graduates: 250.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 140; Graduates: 32.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	6	9	$1800	payable	7-9 hours/week teaching

Applications must be filed by April 1, 1962.

NORTH TEXAS STATE UNIVERSITY, DENTON, TEXAS
H. C. Parrish, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 8400; Graduates: 1100.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 250; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	12	9	$1600	*	6 hours/week of classroom instruction

* $150/9 months; $450/9 months if out-of-state student.

Applications must be filed by April 1, 1962.

NORTHEASTERN UNIVERSITY, BOSTON, MASSACHUSETTS
Harold L. Stubbs, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 17,500;* Graduates: 2800.*
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 120; Graduates: 160.**

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Cooperative Plan Employment in Industry	16	12	$2500 up	$ 600/yr.	***

* Includes part-time evening students.
** Includes about 145 part-time evening students.
*** Includes 32 weeks full-time employment, 20 weeks full-time course work, each year for 2 years leading to M.S. degree.

Applications must be filed by May 1, 1962.

(see advertisement below)

UNIVERSITY OF NORTH CAROLINA
Chapel Hill, N. C.
DEPARTMENT OF STATISTICS

Opportunities for graduate study and research in mathematical statistics, probability theory and their applications.

Graduate Faculty:
George E. Nicholson, Jr., *Chairman*
Raj Chandra Bose
Harold Hotelling
William J. Hall
Samarendra N. Roy
Wassily Hoeffding
Walter L. Smith
and
Visiting Professors
and
Research Associates

Associated facilities include:
Computation Center (UNIVAC 1105)
Departments of Biostatistics, Experimental Statistics (Raleigh), Mathematics
Psychometric Laboratory

NORTHEASTERN UNIVERSITY
GRADUATE CO-OPERATIVE
PROGRAM IN MATHEMATICS

Leading to the degree of:
MASTER OF SCIENCE

Under the Graduate Co-operative Program, a student, during each of two school years, has two ten week terms of classes on campus. During the first year this is supplemented by a ten-week and twenty-two week summer term of Co-operative work with his employer. The second year the student has two ten week terms of Co-op employment. The University Department of Co-operative Education will arrange for the employment of the graduate student.

ADDRESS: GRADUATE SCHOOL
NORTHEASTERN UNIVERSITY
360 HUNTINGTON AVENUE
BOSTON 15, MASSACHUSETTS

NORTHERN ILLINOIS UNIVERSITY, DeKALB, ILLINOIS
Eugene W. Hellmich, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 6458; Graduates: 1653.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 311; Graduates: 53.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	2	9	$1620		20-24 hours/week

Applications must be filed by April 1, 1962.

NORTHWESTERN STATE COLLEGE OF LOUISIANA, NATCHITOCHES, LOUISIANA
C. G. Killen, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 3300; Graduates: 200.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 150; Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	8	9	$1200	tuition free to in-state students	6 hours/week teaching

Applications must be filed by March 15, 1962.

NORTHWESTERN UNIVERSITY, EVANSTON, ILLINOIS
Daniel Zelinsky, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6300; Graduates: 1200.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 60; Graduates: 60.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Research Assistantships	15	9-12	$3200	$ 900	approx. 8 hours/week
Teaching Assistantships	20	9	$1900	free	approx. 8 hours/week *
Fellowships	3	9	$1500 **	free	none
Scholarships	3	9	$ 345 or none	free	none

* Duties equivalent to teaching one class.
** Not taxable.

Applications must be filed by February 22, 1962.

(see advertisement below)

NORTHWESTERN UNIVERSITY

Northwestern University invites applications for assistantships and fellowships in MATHEMATICS.

A program of study and research is provided in all major branches of mathematics.

The University is located on the shore of Lake Michigan in Evanston, Illinois, with all of the cultural advantages of Chicago nearby.

For further information write to

Graduate Committee
Dept. of Mathematics
Northwestern University
Evanston, Illinois

University of South Carolina

The Department of Mathematics of the University of South Carolina offers both the Master's and Doctor's degrees. The graduate program is based upon courses in geometry, applied mathematics, analysis, algebra, number theory and topology with special emphasis on the last four.

A number of assistantships from $1800 to $2200, with in-state tuition rates, are available. Assistants are expected to give the department only three hours of their time per week.

The department will also probably have about three National Defense Fellowships. These are normally awarded for three years and carry stipends from $2000 to $2400. In addition, $400 is allowed for each dependent. Recipients are exempt from all fees and tuition and are not required to give the department any of their time.

Applications must be submitted by March 1. All necessary blanks may be obtained from the office of the Dean of the Graduate School.

UNIVERSITY OF NOTRE DAME, NOTRE DAME, INDIANA
Arnold E. Ross, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6000; Graduates: 1000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 85; Graduates: 80.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
First year Fellowships	3	9	$1500	none	none
Assistantships	30	9	$1600 - $2700	none	6 hours/week
* Special Assistantships	4	9	$2500	none	3 hours/week
** Research Fellowships	6	12	$4000		none

* For especially able and well prepared beginners.
** For advanced students only.

Applications must be filed by March 1, 1962.

OHIO STATE UNIVERSITY, COLUMBUS, OHIO
R. G. Helsel, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 22,000; Graduates: 4000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 200; Graduates: 100.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	40	9	$2100	$ 300	5 hours/week teaching
Assistant Instructorships	10	9	$3600	$ 300	10 hours/week teaching
Instructorships	5	9	$5100	$ 300	15 hours/week teaching
Graduate Assistantships	5	9	$2100	$ 300	15 hours/week *

* In statistics laboratory or numerical computation laboratory.

Applications must be filed by February 1, 1962.

OHIO UNIVERSITY, ATHENS, OHIO
W. T. Fishback, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8400; Graduates: 300.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 50; Graduates: 11.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	4-6	9	$2000 - first year $2200 - second year	$35/semester	6 hours/week teaching

Note: Fees waived if student in summer session.

Applications must be filed by March 1, 1962.

OKLAHOMA STATE UNIVERSITY, STILLWATER, OKLAHOMA
L. Wayne Johnson, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 12,000; Graduates: 1600.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 225; Graduates: 90.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	25	9	$1575 - $2250	*	20 hours/week

* Out-of-State tuition waived.

Applications must be filed by March 1, 1962.

UNIVERSITY OF OKLAHOMA, NORMAN, OKLAHOMA
Richard V. Andree, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 9800; Graduates: 1700.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 297; Graduates: 86.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	20-25	9	*	$7/credit hour	6 hours/week
N.S.F.	6	12	$2500	none	none
	10	9	$2000		5 hours/week
	5	9	$ 500 - $1000	$7/credit hour	
	10	9	fee waived	none	none
	15	9	**		

* $1800 with B.S.; $2000 with M.S.; increase expected.
** Hourly work. Income depends upon time spent assisting professors.

Applications must be filed by February/April, 1962.

UNIVERSITY OF OREGON, EUGENE, OREGON
A. F. Moursund, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8500; Graduates: 1000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 200; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	35	9	$1600 - $2400	$ 102	4 hours/week teaching or equivalent

Applications must be filed by March 1, 1962.

UNIVERSITY OF OTTAWA, OTTAWA, ONTARIO, CANADA
V. Linis, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: --- ; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 15; Graduates: 8.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	4	7½	$ 800	$ 250	4 hours/week
	3*	12	$1600	$ 250	

* Summer research.

Applications must be filed by August 15, 1962.

PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PENNSYLVANIA
James B. Bartoo, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 15,000; Graduates: 3000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 300; Graduates: 120.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	15-20	9	$1800 - $2100	none	6 hours/week teaching or equivalent

Note: Tuition grants-in-aid for summer.

Applications must be filed by March 1, 1962.

UNIVERSITY OF PITTSBURGH, PITTSBURGH, PENNSYLVANIA
John C. Knipp, Acting Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 165.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Assistantships	20	8	$1900 *	waived	7 hours/week
** Teaching Fellowships	5	8	$2100	waived	7 hours/week
*** Andrew Mellon Fellowships	5	8-11	$2500	waived	none

* Graduate Assistants will also receive fellowships covering tuition and the General University fee for 3/4-time study in the third term if the University is unable to offer them employment or other financial support during that period.

** Graduate students of demonstrated ability and promise may be appointed after the first year of graduate study as Teaching Fellows.

*** Write directly to the Dean of the Graduate Faculty for application forms.

Applications must be filed by February 15, 1962.

PORTLAND STATE COLLEGE, PORTLAND, OREGON
Robert W. Rempfer, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6000; Graduates: 0.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 300; Graduates: 0.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Undergraduate Assistantships	20	9	$ 270	$300 *	6 hours/week

* Out-of-State $250 additional.

Applications must be filed by September 15, 1962.

PRINCETON UNIVERSITY, PRINCETON, NEW JERSEY
Albert W. Tucker, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3100; Graduates: 900.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 80; Graduates: 55.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	10	9	$2450	$1250 *	up to 20 hours/week

* After passing General Examination a student may apply for $625 toward payment of this fee.

Applications must be filed by February 21, 1962.

PROVIDENCE COLLEGE, PROVIDENCE, RHODE ISLAND
Reverend J. L. McKenney, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2254; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 77; Graduates: ---.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	1	9	$1000		3 hours/week

Applications must be filed by -----------.

COLLEGE OF AGRICULTURE AND MECHANIC ARTS, MAYAGUEZ, PUERTO RICO
Juan de Dios Quiñones-Velázquez, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3618; Graduates: 25.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 51; Graduates: 7.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Assistantships	5	12	$1800	$ 5	5 hours/week

Applications must be filed by March 1, 1962.

UNIVERSITY OF PUERTO RICO, RIO PIEDRAS, PUERTO RICO
Francisco Garriga, Acting Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 21,000; Graduates: 100.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 36; Graduates: 10.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	3	9	$1350	none	6 hours/week

Applications must be filed by August 1, 1962.

PURDUE UNIVERSITY, LAFAYETTE, INDIANA
Felix Haas, Head, Division of Mathematical Sciences

Total University enrollment in 1962-1963: Undergraduates: 13,000; Graduates: 3000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 400; Graduates: 200.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	 Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Half-time Teaching Assistantships	72	9	$2300	$ 79	6 hours/week
Half-time Teaching Assistantships	18	9	$2800	$ 79	6 hours/week
Half-time Research Assistantships	15	9	$1800 - $2200	$ 79	20 hours/week
* Fellowships	5	9	$1600 up	$ 79	none
Instructorships	20	9	$4500	$ 79	12 hours/week

* Not confined to students in the Division.

Applications must be filed by March 15, 1962.

QUEEN'S UNIVERSITY, KINGSTON, ONTARIO, CANADA
A. J. Coleman, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3300; Graduates: 300.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 70; Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	4	8	$1800		3 hours/week lectures
	6	8	$ 500		3 hours/week problems period
	1	9	$1200		none

Applications must be filed by March 1, 1962.

RENSSELAER POLYTECHNIC INSTITUTE, TROY, NEW YORK
George H. Handelman, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3000; Graduates: 600.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 190; Graduates: 55.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Teaching Assistantships	16	9	$1800 - $2000	none	2 courses
Graduate Assistantships Computing Lab.	3	9	$1800 - $2000	none	20 hours/week
Graduate Research Assistantships	6	9	$1800 - $2000	none	20 hours/week
Fellowships	2	9	$ 600 - $2500	none	none

Applications must be filed by February 15, 1962.

UNIVERSITY OF ROCHESTER, ROCHESTER, NEW YORK
Leonard Gillman, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2100; Graduates: 500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 60; Graduates: 45.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
*Teaching Assistantships	15	9	$2100 up	---	4 hours/week
* Research Assistantships	15	9	$2100 up	---	---

* Additional summer support possible.

Applications must be filed by March 1, 1962.

(see advertisement below)

UNIVERSITY
OF
ROCHESTER
Rochester 20, N.Y.

1850

DEGREES
M.A. and Ph.D.

FACULTY
of twenty includes:
W. F. Eberlein
Functional analysis
Leonard Gillman
Rings of functions
R. E. Johnson
Abstract algebra
J. H. B. Kemperman
Probability and applied mathematics
A. H. Stone
General topology
Dorothy Maharam Stone
Measure theory

RUTGERS, THE STATE UNIVERSITY, NEW BRUNSWICK, NEW JERSEY

Kenneth G. Wolfson, Head, Department of Mathematics
Malcolm S. Robertson, Head, Graduate School of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 325; Graduates: 95.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	15	9	$2262	waived	5-6 hours/week teaching
National Defense Fellowships	7	9	$2000 - $2400	waived	none
N. S. F. Cooperative Fellowships	2	12	$2400	waived	none

Applications must be filed by March 1, 1962.

RUTGERS, THE STATE UNIVERSITY, (UNIVERSITY COLLEGE) NEW BRUNSWICK, NEW JERSEY

F. Eugene Clark, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6000; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 250; Graduates: ---.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
*Assistantships	1 or 2				

* In either mathematics or statistics or both (including computation).

Applications should be made to the respective graduate departments.

RUTGERS, THE STATE UNIVERSITY, THE STATISTICS CENTER, NEW BRUNSWICK, NEW JERSEY

Ellis R. Ott, Director, Department of Statistics

Total University enrollment in 1962-1963: Undergraduates: 10,000; Graduates: 1700.
Statistics Majors: Number enrolled in 1962-1963: Undergraduates: --- ; Graduates: 175. *

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Title IV	5	9	$2000	none	
Research Assistantships	3	9	$2000	none	15 hours/week statistical research
	3	9	$2000	none	15 hours/week
Teaching Assistantships	6	9	$2000	none	15 hours/week teaching

* 25 full-time; 150 part-time.

Applications must be filed by May 1, 1962.

SACRAMENTO STATE COLLEGE, SACRAMENTO, CALIFORNIA

Gordon R. Glabe, Acting Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4835; Graduates: 1915.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 120; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Part-time Faculty with rank of Assistant	4	9	$1944 *	$86/year	6 hours/week teaching

* Stipend can be increased by added service.

Applications must be filed by March 1, 1962.

ST. JOHN'S UNIVERSITY, NEW YORK, NEW YORK
Walter F. Cassidy, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8337; Graduates: 2446.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 200; Graduates: 100.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	10	10	$1500	free	12 hours/week

Note: Fees must be paid.

Applications must be filed by March 15, 1962.

ST. LOUIS UNIVERSITY, ST. LOUIS, MISSOURI
Francis Regan, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 9000; Graduates: 2500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 65; Graduates: 55.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	5	9	$3200	free	9 hours/week
Graduate Fellowships	10	9	$2000	$25/hour	6 hours/week

Applications must be filed by February 1, 1962.

ST. MARY'S UNIVERSITY, SAN ANTONIO, TEXAS
Brother James F. Gray, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2118; Graduates: 172.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 60; Graduates: 60.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	2	9	$ 720	$20/semester hour	3 hours/week
	2	9	$ 500	$20/semester hour	

Applications must be filed by May 1, 1962.

SAN DIEGO STATE COLLEGE, SAN DIEGO, CALIFORNIA

Newton B. Smith, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 10,000; Graduates: 3000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 275; Graduates: 75.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	20	9	$2430	*	6 hours/week

* $46/semester for resident; $8.50/unit, non-resident.

Applications must be filed by March 1, 1962.

UNIVERSITY OF SASKATCHEWAN, SASKATOON, SASKATCHEWAN, CANADA

H. H. Ferns, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5700; Graduates: 300.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: ---; Graduates: ---.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	9	8	$2000	$ 217	3-5 hours/week

Applications must be filed by March 31, 1962.

UNIVERSITY OF SOUTH CAROLINA, COLUMBIA, SOUTH CAROLINA

W. L. Williams, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6600; Graduates: 400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 40; Graduates: 65.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	20	9	$1800 - $2200	in-state tuition rates	3 hours/week
Research Assistantships	1	9	$2000	in-state tuition rates	3 hours/week
National Defense Fellowships (probable)	3	9	$2000 - $2400*	none	none

* Plus dependency allowances.

Applications must be filed by March 1, 1962.

(see advertisement page 89)

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY, RAPID CITY, SOUTH DAKOTA
Louis C. Barrett, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 827; Graduates: 31.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 40; Graduates: 8.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Assistantships	5	9	$2000	*	4-5 hours/week
** Instructorships	3	9	$4000	*	12-15 hours/week

* Student must pay his own tuition.
** Faculty status and privileges.

Applications must be filed by April 1, 1962.

STATE UNIVERSITY OF SOUTH DAKOTA, VERMILLION, SOUTH DAKOTA
William E. Ekman, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2600; Graduates: 400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	4	9	$1700	not included	4 semester hours each semester teaching elementary mathematics

Applications must be filed by March 15, 1962.

UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, CALIFORNIA
Paul A. White, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8000; Graduates: 6400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 140; Graduates: 100.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	8	9	$1520	included	8 hours/week

Applications must be filed by March 1, 1962.

SOUTHERN ILLINOIS UNIVERSITY, CARBONDALE, ILLINOIS

John M. H. Olmsted, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 9000; Graduates: 1000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 320; Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Assistantships	6	9	$1800	$10 fees/quarter*	6-7 hours/week
Fellowships	several	9	$1080 - $1620	$10 fees/quarter*	5-10 hours/week non-teaching duties

* Additional $9.50 for activities is optional.

Applications for assistantships must be filed by March 15,1962, for fellowships by February 1,1962.

SOUTHERN METHODIST UNIVERSITY, DALLAS, TEXAS

Edwin D. Mouzon, Jr., Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3728; Graduates: 1660.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 24;* Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	3	9	$2100 + tuition	included	9 hours/week
	3	9	$1400 + tuition	included	6 hours/week

* Seniors.

Applications must be filed by April 1, 1962.

UNIVERSITY OF SOUTHWESTERN LOUISIANA, LAFAYETTE, LOUISIANA

Z. L. Loflin, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5325; Graduates: 127.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 119; Graduates: 14.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	5	9	$1500	$75/year	6 hours/week

Applications must be filed by February 15, 1962.

STANFORD UNIVERSITY, STANFORD, CALIFORNIA
David Gilbarg, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6200, Graduates: 3500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 160; Graduates: 150.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	30	9	$2100 - $2600*	$ 78	3-4 hours/week
Fellowships	12	9	$3300 - $3600*	$1260	none

* Additional stipends for the summer quarter are available to students qualified for independent study.

Note: Research assistantships are also available but are not generally offered to first year students.

Applications must be filed by March 1, 1962.

STANFORD UNIVERSITY, STANFORD, CALIFORNIA
Herbert Solomon, Head, Department of Statistics

Total University enrollment in 1962-1963: Undergraduates: 5500; Graduates: 4000.
Statistics Majors: Number enrolled in 1962-1963: Undergraduates: 20; Graduates: 105.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Research Assistantships	25	9	$2400 - $3600	$1260	
Teaching Assistantships	8	9	$1900 - $3000		3-5 hours/week

Applications must be filed by February 15, 1962.

STEVENS INSTITUTE OF TECHNOLOGY, HOBOKEN, NEW JERSEY
Nicholas J. Rose, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 1070; Graduates: 1100.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 30; Graduates: 60.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	5	9	\$1750 - \$2000	yes	20 hours/week
Research Assistantships	1-2	9 or 12	\$1750 - \$2000 for 9 months	yes	20 hours/week

Applications must be filed by March 1, 1962.

SYRACUSE UNIVERSITY, SYRACUSE, NEW YORK
D. E. Kibbey, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 8000; Graduates: 4000.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: ---; Graduates: ---.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Assistantships	12	9	\$2000	none	15 hours/week
Computing Center Assistantships	3	12	\$3400	none	academic year-$\frac{1}{2}$ time: summer - full time

Applications must be filed by March 1, 1962.

TENNESSEE POLYTECHNIC INSTITUTE, COOKEVILLE, TENNESSEE
Ralph C. Boles, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 3100; Graduates: 185.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 52; Graduates: 1.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	2	9	\$1800	\$ 165	6-8 hours/week

Applications must be filed by April 1, 1962.

UNIVERSITY OF TENNESSEE, KNOXVILLE, TENNESSEE

O. G. Harrold, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 110; Graduates: 65.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Assistantships	5	12	$1300	waived	5 hours/week teaching
Teaching Assistantships	5	12	$1600	waived	5 hours/week teaching
N.D.E.A.	6	9	$2000	Out-of-State tuition waived	none
Dryzer Fellowship	1	9	$2600	waived	5 hours/week teaching
Research Assistantships	4	9	$1000 - $2000		to be arranged
University Scholarships	2	9	$1000	waived	none

Applications must be filed by February 1, 1962.

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS, COLLEGE STATION, TEXAS

E. C. Klipple, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 7000; Graduates: 1000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 200; Graduates: 35.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	30	9	$100 - $445/mo.	$50/semester	3-9 hours/week

Note: Out-of-State increment remitted.

Applications must be filed by June 1, 1962.

TEXAS CHRISTIAN UNIVERSITY, FORT WORTH, TEXAS
Charles R. Sherer, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8500; Graduates: 600.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 140; Graduates: 90.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable if not included in Stipend	Service required (hrs/wk)
Teaching Fellowships	5	9	$2450	$20/ semester hour	3 semester hours/week teaching
Teaching Assistantships	4	9	$ 950 - $1450	$20/ semester hour	3-6 semester hours/week teaching

Applications must be filed by March 1, 1962.

TEXAS SOUTHERN UNIVERSITY, HOUSTON, TEXAS
A. H. Wardlaw, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3600; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 135; Graduates: 10.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Assistantships	4	9	$ 75	yes	3 semester hours/week

Note: These assistantships will become available as the enrollment justifies the need.

Applications must be filed by ----------.

UNIVERSITY OF TOLEDO, TOLEDO, OHIO
Richard W. Shoemaker, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 6500; Graduates: 500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: [illegible] Graduates: 10.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	5		$2000	included	6-8 hours/week

Applications must be filed by April 15, 1962.

UNIVERSITY OF TORONTO, TORONTO, ONTARIO, CANADA
D. B. DeLury, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: ---; Graduates: ---.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	15	9	$1800	$ 286	3 hours/week

Note: Some summer stipends of $800 available.

Applications must be filed by March 1, 1962.

TRINITY UNIVERSITY, SAN ANTONIO, TEXAS
Malcolm G. McCown, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1728; Graduates: 279.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 65; Graduates: 25.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	2	9	$1500 - $1800	yes	20 hours/week

Applications must be filed by June 1, 1962.

TULANE UNIVERSITY, NEW ORLEANS, LOUISIANA
Gail S. Young, Head, Department of Mathematics
A. D. Wallace, Head, Graduate School, Department of Mathematics
A. H. Clifford, Head, Newcomb College, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3171; Graduates: 826.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 52; Graduates: 40.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	26	9	$2000	included	6 hours/week

Note: Student pays University fee of $55 per semester.

Applications must be filed by April 1, 1962.

UNIVERSITY OF TULSA, TULSA, OKLAHOMA
Ralph W. Veatch, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4500; Graduates: 300.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 110; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	1	9	$1000	$495/9 months	12 hours/week

Applications must be filed by June 1, 1962.

UTAH STATE UNIVERSITY, LOGAN, UTAH
Neville C. Hunsaker, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5500; Graduates: 400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 50; Graduates: 16.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	8	9	$1600 - $2000	$ 195	6 hours/week

Applications must be filed by April 15, 1962.

UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH
C. R. Wylie, Jr., Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8150; Graduates: 1393.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 119; Graduates: 56.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	5	9	$1425	*	5 hours/week teaching
	5	9	$2850	*	10 hours/week teaching

* $85.00 resident; $145.00 non-resident.

Applications must be filed by March 15, 1962.

VANDERBILT UNIVERSITY, NASHVILLE, TENNESSEE
E. Baylis Shanks, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2800; Graduates: 1200.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 75; Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	3	9	$3375	$ 375	9 hours/week
	1	9	$2375	$ 375	6 hours/week
	2	9	$2250	$ 750	none
	3	9	$1950	$ 750	none
	1	9	$1750	$ 750	none
	1	9	$1375	$ 375	none

Applications must be filed by February 15, 1962.

UNIVERSITY OF VERMONT, BURLINGTON, VERMONT
N. James Schoonmaker, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3200; Graduates: 400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 80; Graduates: 7.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Teaching Fellowships	4	9	$1800*	free	6 hours/week

* Stipend exempt from federal tax.

Applications must be filed by March 15, 1962.

VILLANOVA UNIVERSITY, VILLANOVA, PENNSYLVANIA
Emil Amelotti, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 8000; Graduates: 593.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 85; Graduates: 161.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	15	9	$1800	free	6 hours/week

Applications must be filed by May, 1962.

VIRGINIA POLYTECHNIC INSTITUTE, BLACKSBURG, VIRGINIA
T. W. Hatcher, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5000; Graduates: 400.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 80; Graduates: 17.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	5	9	$1650	none	3 hours/week
Teaching Assistantships	6	9	$1500	none	5 hours/week
Fellowships	4	9	$2200	$ 225	none
Part-time Instructorships	4	9	$1500	none	5 hours/week

Applications must be filed by April 1, 1962.

VIRGINIA POLYTECHNIC INSTITUTE, BLACKSBURG, VIRGINIA
Boyd Harshbarger, Head, Department of Statistics

Total University enrollment in 1962-1963: Undergraduates: 4800; Graduates: 600.
Statistics Majors: Number enrolled in 1962-1963: Undergraduates: 100; Graduates: 75.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	5	9	$ 175 - $ 190	$300 local fees*	6 hours/week
Fellowships	14	12	$ 175 - $ 210	$300 local fees*	none

* No Out-of-State tuition.

Applications must be filed by March 15, 1962.

VIRGINIA STATE COLLEGE, PETERSBURG, VIRGINIA
Reuben R. McDaniel, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: ---; Graduates: ---.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	3	10	$1200	not included	6-10 hours/week

Applications must be filed by June 1, 1962.

UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VIRGINIA
Gordon T. Whyburn, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4300; Graduates: 700.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 25; Graduates: 35.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	2	9	$4700	$290-$585	12 hours/week
	8	9	$1800 - $2450	$290-$585	6 hours/week
	10	9	$ 300 - $ 750	$290-$585	4-8 hours/week grading

Applications must be filed by February 28, 1962.

WAKE FOREST COLLEGE, WINSTON-SALEM, NORTH CAROLINA
Ivey C. Gentry, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2900; Graduates: 50.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 100; Graduates: 6.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Scholarships	3	9	$ 700	$ 700	none
Fellowships	2	9	$1700	$ 700	none
Assistantships	2	9	$2420	$ 700	12 hours/week

Applications must be filed by March 1, 1962.

WASHINGTON STATE UNIVERSITY, PULLMAN, WASHINGTON
Sidney G. Hacker, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 7150; Graduates: 650.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	20	9	$2500	about $150	15-20 hours/week

Applications must be filed by April 1, 1962.

WASHINGTON UNIVERSITY, SAINT LOUIS, MISSOURI
I. I. Hirschman, Jr., Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4000; Graduates: 2000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 35; Graduates: 40.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	20	9	$1800 - $2500	$ 810 *	20 hours/week
	6	9	$1800 - $2500	included	none

* Tuition remission is not automatic but is usually given.

Applications must be filed by March 1, 1962.

UNIVERSITY OF WASHINGTON, SEATTLE, WASHINGTON
Carl B. Allendoerfer, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 16,000; Graduates: 4000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 425; Graduates: 170.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	40	9	$2115 *	$ 300	6 class hours/week
Research Assistantships	20	9	$2115 *	$ 300	variable

* Subject to probable increase.
Note: Summer positions also available for teaching and research assistants.

Applications must be filed by March 15, 1962.

UNIVERSITY OF WATERLOO, WATERLOO, ONTARIO, CANADA
R. G. Stanton, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1440; Graduates: 60.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 100; Graduates: 25.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	12	9	$2475	$ 300	8 hours/week

Applications must be filed by February 15, 1962.

WAYNE STATE UNIVERSITY, DETROIT, MICHIGAN
Felix Haas, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: ---; Graduates: ---.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	20	9	$1900	---	20 hours/week
	10	9	$2500	$ 500	---
	20	9	$2300 - $2800	---	20 hours/week

Applications must be filed by March 1, 1962.

WESLEYAN UNIVERSITY, MIDDLETOWN, CONNECTICUT

R. A. Rosenbaum, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1000; Graduates: 150.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 30; Graduates: 2.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	2	9	$2500	$1000	10 hours/week

Applications must be filed by ----------.

WEST VIRGINIA UNIVERSITY, MORGANTOWN, WEST VIRGINIA

Joseph K. Stewart, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 7000; Graduates: 500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 31; Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Assistantships	12-15	9	$1650 - $1950	none	6 hours/week

Applications must be filed by March 9, 1962.

WESTERN ILLINOIS UNIVERSITY, MACOMB, ILLINOIS

Joseph J. Stipanowich, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3224; Graduates: 143.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 185; Graduates: 5.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	1 or 2	9	$1080	*	about 16 hours/week

* Student pays own fees.

Applications must be filed by March 1, 1962.

WESTERN MICHIGAN UNIVERSITY, KALAMAZOO, MICHIGAN
James H. Powell, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 8500; Graduates: 1500.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 200; Graduates: 10.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	5	9	$2200	*	6-8 hours/week
** Laboratory Assistantships	3	9	$1500	*	20 hours/week

* Student must pay tuition, but local fees are waived.

** In Computer Center; IBM 1620.

Applications must be filed by March 1, 1962.

UNIVERSITY OF WESTERN ONTARIO, LONDON, ONTARIO, CANADA
G. H. Magee, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 3357; Graduates: 404.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 100;* Graduates: 7.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Teaching Fellowships	2	9	$1600	$ 340	3 hours/week
Teaching Fellowships	2	9	$1800	$ 340	3 hours/week

* In Honours Mathematics Programs.

Applications must be filed by April 1, 1962.

WESTERN RESERVE UNIVERSITY, CLEVELAND, OHIO
Walter Leighton, Head, Department of Mathematics

Total University enrollment in 1962-1963:	Undergraduates: 2004; Graduates: 1665.
Mathematics Majors: Number enrolled in 1962-1963:	Undergraduates: 60; Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	15	9	$2700	approx. $560/yr.	1 three-hour course
		12	$3600	approx. $560/yr.	1 three-hour course

Applications must be filed by March 15, 1962.

WESTERN WASHINGTON STATE COLLEGE, BELLINGHAM, WASHINGTON
Harvey M. Gelder, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 3800; Graduates: 530.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 75; Graduates: 12.*

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	6	9	$ 900	none	3-5 hours/week

* Master-Teacher of Mathematics program.

Applications must be filed by May 1, 1962.

UNIVERSITY OF WICHITA, WICHITA, KANSAS
M. F. Ruchte, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 5000; Graduates: 700.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 45; Graduates: 35.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
	7	9	$1500		5-6 hours/week or equivalent time in other work

Applications must be filed by ----------.

COLLEGE OF WILLIAM AND MARY IN VIRGINIA, WILLIAMSBURG, VIRGINIA
Thomas L. Reynolds, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 2400; Graduates: 125.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 60; Graduates: 15.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Fellowships	4	9	$1200	not included	none
Graduate Assistantships	4	9	$1800	not included	3 hours/week teaching or tutorial

Applications must be filed by April 1, 1962.

WILLIAM MARSH RICE UNIVERSITY, HOUSTON, TEXAS
Floyd E. Ulrich, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1500; Graduates: 500.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 65; Graduates: 25-30.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Graduate Assistantships	10	9	$1800 - $2100	none	6-8 hours/week
* Industrial Fellowships	3	9	$1800 - $2400	none	6-8 hours/week may or may not be required to assist in dept.

* Sponsored by Schlumberger Foundation, Phillips Petroleum Company, Sun Oil Company.
Note: No tuition charges for any student at Rice University.

Applications must be filed by April 1, 1962.

UNIVERSITY OF WISCONSIN, MATHEMATICS RESEARCH CENTER, U.S. ARMY, MADISON, WISCONSIN

R. E. Langer, Director

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: ---; Graduates: ---.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend		Tuition Payable, if not included in Stipend	Service required (hrs/wk)
		9 or 12 Mo.	Amount		
Fellowships	unspecified	12	$2250 - $2500*	included	2 months research assistantship

* Plus $500 for child or children.

Applications must be filed by February 1, 1962.

UNIVERSITY OF WISCONSIN, MADISON, WISCONSIN
S. C. Kleene, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: ---; Graduates: ---.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 150; Graduates: 220.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Teaching Assistantships	15	10	$1075 - $1466	$236/yr.*	4 hours/week
Teaching Assistantships	20	10	$2508 - $2566	$236/yr. *	7 hours/week
Teaching Assistantships	45	10	$2150 - $2933	$236/yr. *	8 hours/week
Computing Assistantships	8	10 or 12	$ 175 - $220/mo.	$236/yr. *	programming and consulting equivalent to 4-8 hours/week teaching
WARF Fellowships	8	10 or 12	$2400/12mo.	**	no special duties
Paper Graders	35	9-10	$ 500 - $1500	$725/yr.(non-resident)	5-15 hours/week at students convenience
Special Fellowships	10	10	$1870 - $2400	usually included in Stipend	no special duties
Contract Assistantships WARF Assistantships	5	10	$1900 - $2500	*	
Research Assistantships Math. Research Center	several	12	$2250 - $2500	***	

* Exempted from $489 tuition per year (non-resident).
** Exempted from $725 tuition and fees.
*** Exempted from tuition and fees plus allowance for dependent children.

Applications must be filed by February 15, 1962.

UNIVERSITY OF WISCONSIN-MILWAUKEE, MILWAUKEE, WISCONSIN
Ross H. Bardell, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 7741; Graduates: 924.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 50; Graduates: 35.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
	10	9	$2150	$ 220	8 hours/week

Applications must be filed by April 1, 1962.

UNIVERSITY OF WYOMING, LARAMIE, WYOMING
Clarence F. Barr, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4077; Graduates: 461.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 32;* Graduates: 20.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Graduate Assistantships	9	9	$1700	$100 total. Remission of out-of-state fees	18 hours/week

* Juniors and Seniors only.
Note: Almost all Graduate Assistants render teaching services at the freshman level. Outstanding applicants may be assigned a double teaching load. For this they receive a double stipend but must schedule their Master's degree program to extend over a 2-year period.

Applications must be filed by March 1, 1962.

YALE UNIVERSITY, NEW HAVEN, CONNECTICUT
Charles E. Rickart, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 4000; Graduates: 4000.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 125; Graduates: 57.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Fellowships	15	9	$3000 *	$1350	none
Research Assistantships	15	9	$3350	$1350	12 hours/week
** Assistantships in Instruction	10	9	$3350	$1350 full-time $ 800 half-time	6 hours/week classroom teaching

* Amount awarded depends on need.
** First year Students usually excluded.
Note: The Fellowships and Research Assistantships are tax free.
The portion of the stipend for Assistants in Instruction over and above tuition is taxable.

Applications should be filed by February 1, 1962 if possible.

YESHIVA UNIVERSITY, GRADUATE SCHOOL OF SCIENCE, NEW YORK, NEW YORK
A. Gelbart, Head, Department of Mathematics

Total University enrollment in 1962-1963: Undergraduates: 1375; Graduates: 2104.
Mathematics Majors: Number enrolled in 1962-1963: Undergraduates: 71; Graduates: 50.

Graduate Assistantships etc.	No. Anticipated in 1962 - 1963	Stipend 9 or 12 Mo.	Stipend Amount	Tuition Payable, if not included in Stipend	Service required (hrs/wk)
Research Assistantships	12	9	$1800*	½ tuition	15 hours/week
Teaching Assistantships	2	9	$1800	full remission	6-8 hours/week
Fellowships	5	9	$1800**	full remission	none

* May be supplemented by $1200 for summer.
** May be supplemented by summer award.

Applications must be filed by February 1, 1962.

DEPARTMENTS OF MATHEMATICS, STATISTICS, AND APPLIED MATHEMATICS

no graduate department --- NGD; no assistantships --- NA; no reply --- NR

Abilene Christian College	NR
Agnes Scott College	NGD
Agricultural, Mechanical and Normal College, Arkansas	NR
Albertus Magnus College	NGD
Albion College	NGD
Alfred University	NGD
Allegheny College	NR
Alverno College	NGD
Amarillo College	NGD
The American University	NR
Amherst College	NA
Antioch College	NGD
Aquinas College	NGD
Arizona State College	NA
Arkansas Polytechnic College	NGD
Arlington State College	NGD
Armstrong College of Savannah	NR
Atlanta University	NR
Augustana College	NGD
Austin College	NGD
Baker University	NR
Bakersfield College	NGD
Baldwin-Wallace College	NGD
Barat College of the Sacred Heart	NGD
Bates College	NGD
Baylor University	NR
Beaver College	NGD
Bellarmine College	NGD
Beloit College	NGD
Bemidji State College	NR
Berea College	NGD
Bethel College	NGD
Birmingham-Southern College	NGD
Bowdoin College	NGD
Bradford Durfee College of Technology	NGD
Bradley University	NA
University of Bridgeport	NGD
Bronx Community College	NGD
University of Buffalo, School of Engineering, Mechanics and Design Department	NA
Butler University	NGD
California State Polytechnic College	NGD
California State Polytechnic College, Kellogg-Voorhis Campus	NA
University of California, San Diego	NA
University of California, Livermore	NR
California Western University	NR
Canisius College	NGD
Capital University	NGD
Cardinal Stritch College	NGD
Carleton College	NGD
Carroll College	NGD
Carson-Newman College	NGD
Catawba College	NGD
Centenary College	NR
Central Connecticut State College	NR
Central State College, Oklahoma	NA
Chatham College	NGD
University of Chattanooga	NGD
Chicago Teachers College	NA
Chicago Technical College	NR
University of Chicago, Department of Statistics	NR
Chico State College	NA
The Citadel	NGD
City College of San Francisco	NGD
Clark College, Georgia	NR
Clarke College, Iowa	NGD
Clarkson College of Technology	NGD
Coe College	NR
Colby College	NGD
Colgate University	NGD
Colorado College	NGD
Colorado School of Mines	NR
Colorado State College	NR
Concordia College	NGD
Connecticut College	NGD
Contra Costa College	NR
Cooper Union	NGD
Cornell College	NGD
Creighton University	NA
Cumberland College	NGD
Dalhousie University	NR
Davidson College	NGD
University of Dayton	NA
Denison University	NGD
University of Denver	NA
De Paul University	NR
Dickinson College	NGD
Drake University	NGD
Drew University	NGD
Drexel Institute of Technology	NGD
Drury College	NR
Dutchess Community College	NGD
Earlham College	NR
East Central State College	NGD
East Los Angeles Junior College	NR
Eastern Kentucky State College	NGD
Eastern Michigan University	NR
Eastern Montana College of Education	NA
El Camino College	NGD
Elizabethtown College	NGD
Elon College	NGD
Emmanuel College	NGD
Emory and Henry College	NR
Fairfield University	NR
Fenn College	NGD
Fisk University	NR
Flint Community Junior College	NGD
Florence State College	NR
Florida Agricultural and Mechanical University	NGD
Florida Presbyterian College	NGD
Florida Southern College	NGD
Franklin and Marshall College	NGD
Frederick College	NGD
Friends University	NGD
Gannon College	NR

General Motors Institute	NGD
Geneva College	NGD
George Peabody College for Teachers	NR
Georgetown College	NGD
Georgia State College of Business Administration	NGD
Gonzaga University	NR
Goucher College	NR
Grambling College	NR
Grinnell College	NGD
Grove City College	NGD
Gustavus Adolphus College	NGD
Hamilton College	NGD
Hamline University	NGD
Hampton Institute	NR
Hardin-Simmons University	NGD
Harris Teachers College	NGD
University of Hartford	NGD
Harvard University, Department of Statistics	NR
Harvey Mudd College	NGD
Haverford College	NGD
Henderson State Teachers College	NA
Henry Ford Community College	NR
Hiram College	NGD
Hobart and William Smith Colleges	NGD
Hofstra College	NR
Hollins College	NGD
College of the Holy Cross	NGD
Hood College	NGD
Hope College	NGD
Howard College	NR
Howard University	NR
Humboldt State College	NA
Hunter College of the City of New York	NR
Idaho State College	NGD
Illinois College	NA
University of Illinois, Chicago Undergraduate Division	NGD
Illinois Wesleyan University	NGD
Immaculate Heart College	NGD
Incarnate Word College	NGD
Indiana State College	NR
Indiana Technical College	NGD
Iona College	NGD
Jackson State College	NR
Jersey City State College	NGD
Johns Hopkins University	NR
Juniata College	NGD
University of Kansas City	NR
Kenyon College	NGD
Knox College	NGD
Lafayette College	NGD
Lake Forest College	NGD
Lamar State College of Technology	NGD
La Salle College	NGD
Université Laval, Faculté des Sciences	NGD
Lawrence College	NR
Lawrence Institute of Technology	NGD
Lebanon Valley College	NR
LeMoyne College	NGD
Lindenwood College for Women	NGD
Long Beach City College	NR
Long Island University	NR
Loras College	NGD
Los Angeles City College	NR
Los Angeles Harbor College	NGD
Louisiana State University in New Orleans	NA
University of Louisville	NA
University of Louisville, Speed Scientific School	NR
Loyola College, Maryland	NGD
Loyola College, Montreal	NR
Loyola University, Louisiana	NR
Loyola University of Los Angeles	NGD
McMurray College	NGD
McNeese State College	NA
Macalester College	NGD
Manchester College	NGD
Manhattan College	NR
Marietta College	NR
Mars Hill College	NR
Marshall University	NGD
Mary Washington College	NGD
Memphis State University	NR
Mercer University	NR
Michigan State University Oakland	NGD
Middlebury College	NGD
Midwestern University	NR
Millikin University	NGD
Millsaps College	NR
Milwaukee School of Engineering	NR
Milwaukee-Downer College	NGD
University of Minnesota, Department of Statistics	NR
University of Minnesota, Duluth Branch	NA
Mississippi Southern College	NR
Missouri School of Mines and Metallurgy	NA
Monmouth College, Illinois	NR
Monmouth College, New Jersey	NA
Montana School of Mines	NGD
Montana State University	NR
Montclair State College	NA
Moravian College	NR
Morgan State College	NGD
Morningside College	NGD
Morton Junior College	NGD
Mount Holyoke College	NR
Mount Mary College	NGD
Mount St. Agnes College	NR
Mount St. Mary's College	NGD
Mount St. Scholastica College	NGD
College of Mount St. Vincent	NGD
Mount Union College	NR
Muhlenberg College	NGD
Nazareth College of Rochester	NGD
Nebraska Wesleyan University	NGD
University of New Brunswick	NR
New York City Community College	NR
State University of New York, Agricultural & Technical Institute at Alfred	NGD
State University of New York, College of Education at Albany	NA
State University of New York, College of Education at Buffalo	NA
State University of New York, College of Education at Oneonta	NA

State University of New York, College of Education at Oswego	NA
State University of New York, College on Long Island	NR
State University of New York, Harpur College	NA
Newberry College	NGD
Niagara University	NR
Nicholls State College	NGD
North Carolina College at Durham	NR
Agricultural and Technical College of North Carolina	NR
University of North Carolina, Woman's College	NGD
University of North Dakota	NR
North Georgia College	NGD
North Park College	NR
Northeast Louisiana State College	NA
Northern Michigan College	NA
Northern State Teachers College, South Dakota	NR
Northwest Missouri State College	NR
Norwich University	NR
College of Notre Dame	NGD
Oakland City College	NGD
Oberlin College	NGD
Occidental College	NGD
Odessa College	NR
Ohio Northern University	NR
Ohio Wesleyan University	NGD
Oklahoma City University	NGD
Olivet Nazarene College	NGD
Municipal University of Omaha	NGD
Orange Coast College	NGD
Oregon State College	NR
Our Lady of Cincinnati College	NGD
Our Lady of the Lake College	NGD
University of the Pacific	NGD
Pan American College	NGD
Pasadena City College	NGD
Paterson State College	NGD
Pennsylvania Military College	NR
University of Pennsylvania	NR
Perkinston Junior College	NGD
Pomona College	NGD
Prairie View Agricultural and Mechanical College	NR
Pratt Institute	NGD
University of Puget Sound	NGD
Purdue University, Calumet Center	NR
Purdue University, Indianapolis Center	NR
Queens College, New York	NGD
Quincy College	NGD
Radcliffe College	NR
Randolph-Macon College	NGD
Randolph-Macon Woman's College	NGD
University of Redlands	NGD
Reed College	NGD
Regis College, Denver	NGD
Regis College, Weston, Massachusetts	NGD
University of Rhode Island	NR
University of Richmond	NA
Ripon College	NGD
Rochester Institute of Technology	NGD
Rollins College	NGD
Roosevelt University	NR
Rosary College	NGD
Rosary Hill College	NGD
Rose Polytechnic Institute	NR
Royal Military College of Canada	NR
Rutgers, The State University, Douglass College	NA
Rutgers, The State University, Newark Colleges	NA
Rutgers, The State University, South Jersey College	NR
Sacramento City College	NR
St. Ambrose College	NGD
St. Anselm's College	NA
St. Benedict's College	NA
St. Bonaventure University	NGD
College of St. Catherine	NGD
St. Francis College	NGD
St. Francis Xavier University	NA
St. John's University, Minnesota	NGD
St. Joseph's College	NGD
St. Joseph's Teachers College	NR
St. Lawrence University	NGD
St. Martin's College	NGD
St. Mary's College of California	NGD
St. Michael's College	NR
St. Norbert College	NR
St. Olaf College	NGD
St. Peter's College	NR
St. Petersburg Junior College	NGD
College of St. Rose	NGD
College of St. Teresa, Kansas City	NGD
College of St. Teresa, Winona	NGD
College of St. Thomas	NGD
University of St. Thomas	NGD
St. Vincent College	NGD
St. Xavier College	NGD
Salve Regina College	NR
Sam Houston State Teachers College	NR
San Antonio College	NGD
San Fernando Valley State College	NR
San Francisco State College	NR
University of San Francisco	NGD
San Jose State College	NA
College of San Mateo	NR
University of Santa Clara	NGD
Santa Monica City College	NGD
Sarah Lawrence College	NGD
University of Scranton	NGD
Seattle Pacific College	NGD
Seattle University	NGD
Seton Hall University	NR
Seton Hill College	NGD
Shorter College	NGD
Siena College	NGD
Simmons College	NGD
Smith College	NA
University of the South	NGD
South Carolina State College	NR
South Dakota State College of Agriculture and Mechanic Arts	NR
Southeast Missouri State College	NGD
Southeastern Louisiana College	NR
Southern University and Agricultural and Mechanical College	NGD
Southern Connecticut State College	NR
Southern Illinois University, Science and Technology Division	NA

Southern Methodist University, Department of Statistics	NR
Southern State College	NGD
Southwest Missouri State College	NR
Southwest Texas State Teachers College	NGD
Southwestern at Memphis	NGD
Spelman College	NR
Spring Hill College	NGD
Stephen F. Austin State College	NA
Stephens College	NGD
College of Steubenville	NGD
Swarthmore College	NGD
Sweet Briar College	NGD
University of Tampa	NGD
Tarleton State College	NGD
Temple University	NGD
Tennessee Agricultural and Industrial State University	NR
Texas Technology College	NR
Texas Woman's University	NGD
University of Texas	NR
University of Texas, Texas Western College	NR
Transylvania College	NR
Trenton State College	NA
Trinity College, Hartford	NA
Trinity College, Washington, D.C.	NR
Tufts University	NR
Tuskegee Institute	NGD
Tyler Junior College	NR
Union College, Lincoln	NGD
Union College, Schenectady	NA
U.S. Air Force Academy	NGD
U.S. Air Force Institute of Technology	NA
U.S. Merchant Marine Academy	NA
U.S. Military Academy	NGD
U.S. Naval Academy	NR
U.S. Naval Postgraduate School	NR
Upsala College	NR
Ursinus College	NGD
Valley Forge Military Junior College	NR
Valparaiso University	NA
Vassar College	NGD
Victoria College	NA
Virginia Military Institute	NA
Viterbo College	NGD
Wabash College	NR
Washburn University of Topeka	NR
Washington State University	NR
Washington and Jefferson College	NGD
Washington and Lee University	NGD
Wellesley College	NGD
Wells College	NA
Wesleyan College	NR
West Baden College	NR
West Texas State College	NGD
Western Carolina College	NGD
Western College for Women	NGD
Westmar College	NGD
Wheaton College, Norton	NGD
Wheaton College, Wheaton	NGD
Whitman College	NGD
Whittier College	NGD
Whitworth College	NR
Wiley College	NR
Wilkes College	NGD
Willamette University	NGD
College of William and Mary in Norfolk	NA
Williams College	NGD
Wilson College	NGD
Wilson Branch, Chicago City Junior College	NGD
Winthrop College	NGD
Wisconsin State College, Eau Claire	NGD
Wisconsin State College, La Crosse	NGD
Wisconsin State College, Oshkosh	NGD
Wisconsin State College, River Falls	NGD
Wisconsin State College, Whitewater	NGD
Wisconsin State College and Institute of Technology	NGD
University of Wisconsin, Racine Center	NA
Wittenberg University	NGD
Wofford College	NR
College of Wooster	NGD
Worcester Polytechnic Institute	NGD
Wright Branch, Chicago City Junior College	NGD
Xavier University, Cincinnati	NR
Xavier University of Louisiana	NGD
Youngstown University	NGD

SELECTED LIST OF AVAILABLE SCHOLARSHIPS AND STIPENDS IN MATHEMATICS

UNDERGRADUATE FELLOWSHIPS AND LOAN SOURCES:

Alcoa Foundation Scholarships. Aluminum Company of America, Pittsburgh 19, Pennsylvania. Number of scholarships: 140. Available for study only at certain specified institutions.

Alfred P. Sloan Foundation Grants. 630 Fifth Avenue, New York, New York.

American Association for the Advancement of Science. Summer Fellowships for Secondary School Teachers of Science and Mathematics. Apply to American Association for the Advancement of Science, 1515 Massachusetts Avenue, N.W., Washington 5, D.C.

Educational Alliance Loans. 197 East Broadway, New York 2, New York. Loans (without interest or other charge) available to students who have completed at least 2 years of college and are residents of New York City. Preference given to graduate students.

Elks National Foundation Scholarship Awards. 16 Court Street, Boston 8, Massachusetts. Number of scholarships: 110. Restricted to residents within the jurisdiction of the order.

Foundry Education Foundation Scholarships. Terminal Tower Building, Cleveland 13, Ohio. Number of scholarships: 185 to 190. Limited to specified institutions.

General Motors Scholarships. Write to General Motors National Scholarship Plan, Educational Testing Service, P. O. Box 461, Princeton, New Jersey.

Hattie M. Strong Foundation, Incorporated. 409 Cafritz Building, 1625 I Street, N.W., Washington 6, D.C. Loans restricted to students who are within 2 years of their final degree. Student lending fund, without interest.

Knights Templar Educational Foundation Loan Fund. 330 West [illegible] Street, New York 18, New York. Available to undergraduate and graduate students.

Leopold Schepp Foundation. Men's Scholarship Committee, 551 Fifth Avenue, New York 17, New York.

Lockheed Leadership Fund Scholarships, California Division, Burbank, California. Number of scholarships: 10 engineering, 5 non technical. Limited to specified institutions.

Lockheed Leadership Fund Scholarships, Georgia Division, Marietta, Georgia. Number of scholarships: 10 engineering, 5 non technical. Limited to specified institutions.

National Defense Student Loan Program. Write to Division of Higher Education, Office of Education, U.S. Department of Health, Education and Welfare, Washington 25, D.C.

National Merit Scholarships. This program is national in scope. Write to National Merit Scholarship Corporation, 1580 Sherman Avenue, Evanston, Illinois for further information.

Radio Corporation of America. 30 Rockefeller Plaza, New York 20, New York. Number of science scholarships: 33. Number of science teaching career scholarships: 30. Scholarships available only at certain specified institutions.

Shell Companies Foundation, Incorporated. 50 West 50th Street, New York, New York.

Westinghouse Science Scholarships. For information write to Westinghouse Electric Corporation, Educational Department, Pittsburgh 21, Pennsylvania.

GRADUATE FELLOWSHIPS:

Graduate Fellowships: First Year, Intermediate, and Terminal Year levels of study. Apply to Fellowship Office, National Academy of Sciences, National Research Council, 2101 Constitution Avenue, N.W., Washington 25, D.C.

National Science Foundation Graduate Fellowships.

National Science Foundation Cooperative Graduate Fellowships.

National Science Foundation Summer Fellowships for Graduate Teaching Assistants. For information and list of participating institutions write to the Fellowships Section, Division of Scientific Personnel and Education, National Science Foundation, Washington 25, D.C.

National Science Foundation Research Grants. The booklet, "Grants for Scientific Research," may be obtained by writing Program Director for Mathematical Sciences, National Science Foundation, Washington 25, D.C.

American Association of University Women. Approximately 40 fellowships ranging from $2,000 to $5,000, unrestricted as to age or field, to be used abroad or in the United States. Write to Fellowships Office, 2401 Virginia Avenue, N.W., Washington 7, D.C.

Danforth Graduate Fellowships. For young men wishing to teach at college level. Offered in all major fields. Candidates nominated through college. The Danforth Foundation, 835 South Eighth Street, St. Louis, Missouri.

Danforth Teacher Grants. Open to men and women with at least 2 years teaching experience or 1 year of graduate study for study towards Doctorate. Nominated by Dean. The Danforth Foundation, 835 South Eighth Street, St. Louis, Missouri.

Institute of International Education. Offers fellowships in all fields of study to be pursued abroad including Fulbright Graduate Program. Apply to: 1 East 67th Street, New York 21, New York.

Mershon Graduate Fellowships. Preference given to citizens of the United States and first-year graduate students. Apply to: Dean of the Graduate School, Ohio State University, 164 West 19th Avenue, Columbus 10, Ohio.

National Defense. (1) Graduate Fellowships, for the preparation of prospective college and university teachers. (2) Student loan program, also listed in undergraduate loan sources. Write to Division of Higher Education, Office of Education, U.S. Department of Health, Education and Welfare, Washington 25, D.C.

NATO Fellowship Program. Approximately 40 fellowships for study in the sciences abroad Write to National Academy of Sciences, National Research Council, 2101 Constitution Avenue, N.W., Washington 25, D.C.

Organization of American States. For advanced training and research in the American republics. Open to citizens of member states for study abroad. Fields individually limited by member countries. United States is a member country. Apply to: Technical Secretary, OAS Fellowship Program, Pan American Union, Washington 6, D.C.

Rotary Foundation Fellowships for International Understanding For one year of advance study abroad in all fields. Contact nearest Rotary club before August 1st.

Southern Fellowships Fund. Available to persons now teaching or to those who wish to teach in Southern Colleges. For teacher training and advanced study and research. Write to The Southern Fellowships Fund, P.O. Box 427, Chapel Hill, North Carolina.

Woodrow Wilson National Fellowship Foundation. First year graduate fellowships in natural and social sciences and the humanities at any graduate school in the United States or Canada. Write to National Director, Woodrow Wilson National Fellowship Foundation, Box 642, Princeton, New Jersey.

United States Army Graduate Fellowships in Applied Mathematics. Candidate must have a bachelor's degree in mathematics, physics, or engineering, and must obtain admission to the Graduate School of the University of Wisconsin. He must be a United States citizen. Apply to: Professor R. E. Langer, Director, Mathematics Research Center, U.S. Army, The University of Wisconsin, Madison 6, Wisconsin.

United States Steel Foundation, Incorporated. The Foundation's Graduate-Study Fellowship Plan is expanded with the installation of 23 new Fellowships at the doctoral level. Write to the United States Steel Foundation, Incorporated, 71 Broadway, New York 6, New York.